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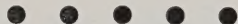
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A  
**DIRECTORY**  
OF NAMES, PENNANT NUMBERS AND ADDRESSES OF ALL MEMBERS OF THE  
**International Ship Masters' Association**  
of the Great Lakes

Also a List of Vessels of the Great Lakes, American and Canadian,  
with Names and Addresses of Owners



Other Information of a Miscellaneous Nature of Interest in Shipping Circles on the Great Lakes

**APRIL 1952**

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By Capt. John C. Murray, Grand Secretary

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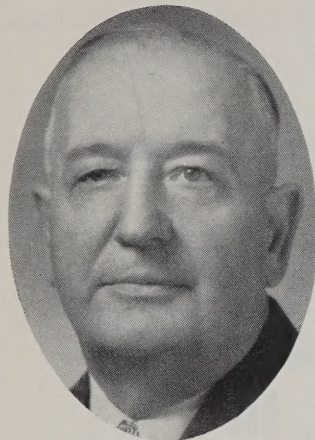
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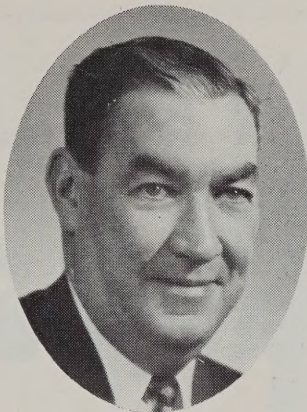
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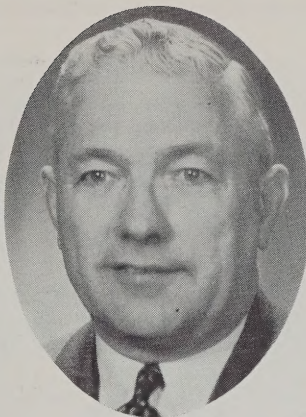




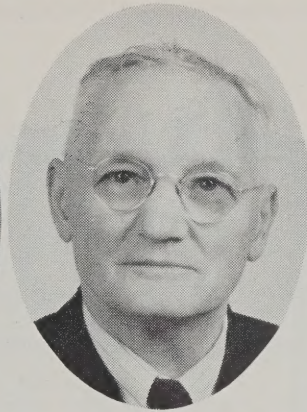
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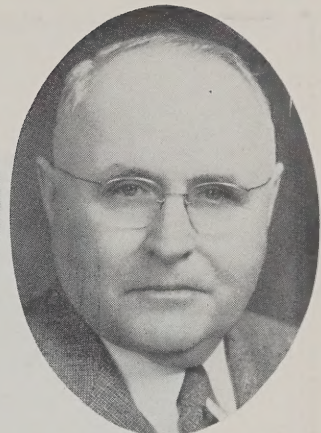
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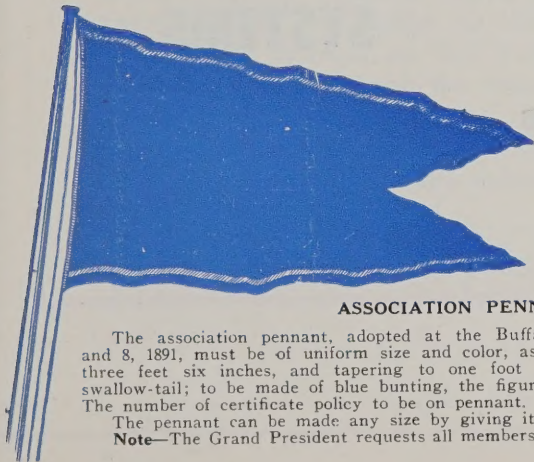
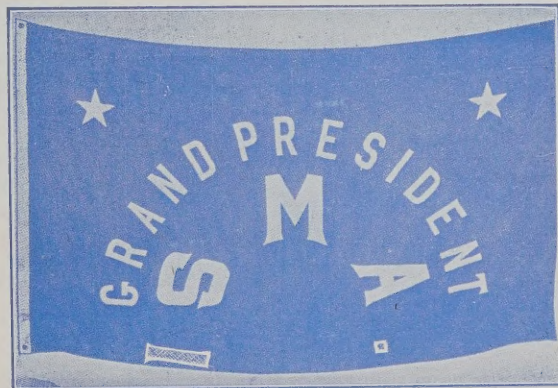


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Grand Treasurer  
13304 Hazelwood Ave.  
Lakewood, Ohio



CAPT. J. C. MURRAY  
Grand Secretary  
10705 Clifton Blvd.  
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#### GRAND PRESIDENT'S FLAG



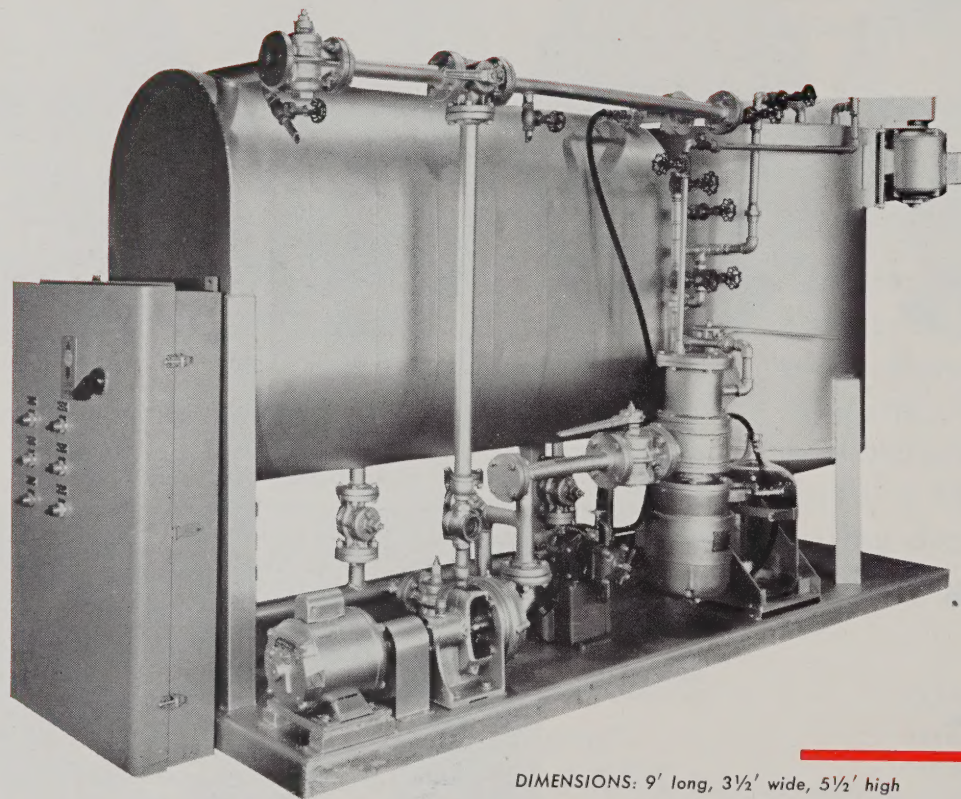
#### ASSOCIATION PENNANT

The association pennant, adopted at the Buffa'o convention, held January 6, 7 and 8, 1891, must be of uniform size and color, as follows: Length, six feet; width, three feet six inches, and tapering to one foot six inches, with an eighteen-inch swallow-tail; to be made of blue bunting, the figures to be white, one foot in length. The number of certificate policy to be on pennant.

The pennant can be made any size by giving it the same proportions as above.

**Note**—The Grand President requests all members to fly the pennant on their vessels.





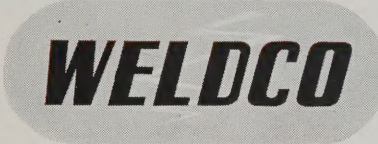
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 13304 Hazelwood Ave., Lakewood 7, Ohio

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 10705 Clifton Blvd., Cleveland 2, Ohio

Grand Chaplain..... Capt. A. J. Gaffney  
 614 Robindale Ave., Toledo 5, Ohio

Grand Marshall..... Capt. L. Anthony Glibert  
 521 King St., Ogensburg, N. Y.

Grand Warden..... Capt. Frederick B. Todd  
 1627 Elbur Ave., Lakewood 7, Ohio

Grand Sentinel..... Capt. Harvey N. Hansen  
 4021 N. Montreal St., Milwaukee 16, Wisc.



## GRAND LODGE INTERNATIONAL SHIPMASTERS' ASSOCIATION, 1951



1st row (front) left to right: Murray, Maitland, Healy, MacDonald, Saunders, Gonyaw, Purdy, Weirsh, Murphy, Hendrickson, Reid.  
 2nd row, left to right: Hansen, Todd, Gilbert, Sullivan, McLean, Rydholm, Gaffney, Stephens, Toale, Palmer.  
 3rd row, left to right: Commdr. Brown, Ray Laughlin, D'Orazio, Packard, Rittenhouse, Filteau, Tishart, Bissett, Gronwall, Cornwall.  
 4th row, left to right: Waterstrat, Reed, Conrad, Fenton, Larson, Sanders, Thompson, Murray, McDonald, McCorkell.  
 5th row, left to right: Peterson, McDonald, Solfrank, Toale, Pen, Lowry, McDonald, Dumont, Laduca, Laduca, Smith, Siefert.  
 6th row, left to right: Hansen, Oliver, Kidd, Wellman, Deroc, Gronwall, Lockland, Paul, Schwab, McLeod, Hauser, Williamson.

## REPORT OF GRAND PRESIDENT HENDRICKSON

To the Officers and Delegates of the Grand Lodge and to all Members of Subordinate Lodges of the International Ship Masters' Association.

I herewith respectfully submit my report for your consideration.

During my term of Office, it has been an honor and privilege to serve the Ship Masters' Association. I have endeavored to the best of my ability to discharge the duties and obligations coming before me during my term of office.

I regret to inform you that our Active Membership shows a slight decrease over 1950. This is due to the fact that in 1951 there were only thirty-three new Active Members initiated as compared to forty in 1950. Our list of deaths was eight less than in 1950, which I am pleased to report. Resignations, Suspensions and Demits were about the same as last year. However, our total membership shows a decrease of sixteen members over 1950.

I am earnestly requesting that all Subordinate Lodges organize membership committees and put on an energetic drive for new members during 1952. There are a great many licensed men sailing on the Great Lakes who are not members of our splendid Association, now holding its Sixty-second Annual Convention.

I am very proud of my membership in this wonderful Association. Its continued success depends upon the effort every member on the Membership Committees puts forth in trying to secure new members during 1952.

During the year our Canadian Lodge No. 15 showed a slight decrease in membership. However, we are still very proud of our Canadian Brothers, and I am hoping for the time when they will enjoy the beneficiary benefits of our Association.

I am now going to ask the Officers, Delegates and members to rise and bow their heads in silent tribute to all of the deceased brothers of our Association.

We should be well pleased with the financial condition of the Ship Masters' Association and that the Grand Lodge is in the best financial condition that it has ever been, due entirely to the personal efforts of our Grand Secretary.

In the face of rising costs of our Directory and other expenditures, we have added a substantial amount to the surplus of the Endowment

and General Funds and show a greater balance than ever before in the history of our Association.

Our 1951 Directory has been brought up to date on vessel information and many new features have been added, making it the most valuable book for marine information on the Great Lakes.

I wish to thank our Grand Secretary, Brother John C. Murray, for the work he has done since taking over his Office. I also wish to extend my sincere appreciation for our Grand Treasurer, Brother William C. Reid, for the excellent work he has done in his Office.

I wish to extend my sincere gratitude and appreciation to the United States Weather Bureau, and personally to Mr. C. George Andrus, Meteorologist, who has rendered invaluable service to the shipping industry on the Great Lakes.

I think it is fitting that the Grand Lodge go on record as extending their sincere appreciation to the United States Coast Guard for the splendid service they have given, and personally to Rear Admiral Rancey in the Cleveland Headquarters, Cap'tain George P. Kenney, Marine Inspection Officer at Cleveland and his staff and Commander Dahlburg at Sault Ste. Marie, Michigan.

† Captain T. Howard Saunders, Chairman of the Navigation and Legislation Committee has been most active during the year, and I wish to thank him and his Committee for their untiring efforts.

The courtesy and consideration shown by the members in the past season to other ships, in traffic jams, navigating in narrow channels, in and out of harbors, and in passing along information as to visibility and weather conditions was very pronounced and is most commendable to the Ship Masters' Association.

In conclusion, I wish to thank all of the Grand Lodge Officers, Delegates and Members of the Subordinate Lodges for their splendid support during my term of office.

† It was a pleasure to serve you during the past year, and I feel confident that my successor will receive the same excellent cooperation that you have given me.

Respectfully submitted

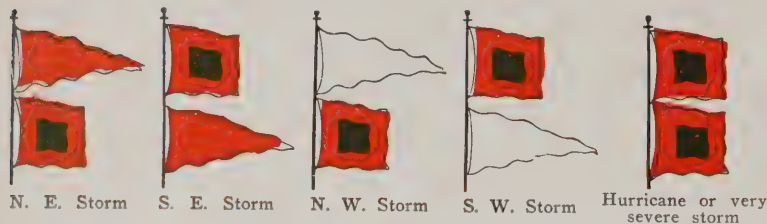
**A. M. HENDRICKSON**

Grand President.



## STORM SIGNALS

As Displayed on the Great Lakes at United States Weather Bureau Station



Information Signals (red or white pennant) displayed alone have been discontinued.

### DISPLAY SIGNALS

**UNITED STATES. Small Craft Warning.** A red pennant indicates moderately strong winds will interfere with safe operation of small craft. No night display.

**Violent Storms** are indicated by day signals comprising a square red flag with black square center and either a red or white pennant, and by night signals composed of the lanterns, either red or red and white; the color and position of the pennants or lights showing the initial direction of the wind, as follows:

**Northeast Storm.** Red pennant above square flag; or two red lanterns, one above the other.

**Southeast Storm.** Red pennant below square flag; or one red lantern.

**Southwest Storm.** White pennant below square flag; or white lantern below red lantern.

**Northwest Storm.** White pennant above square flag; or white lantern above red lantern.

**Hurricane Warning.** Two square flags, one above the other; or two red lanterns with white lantern between; indicates an extremely severe or dangerous storm.

### CANADIAN STORM WARNINGS

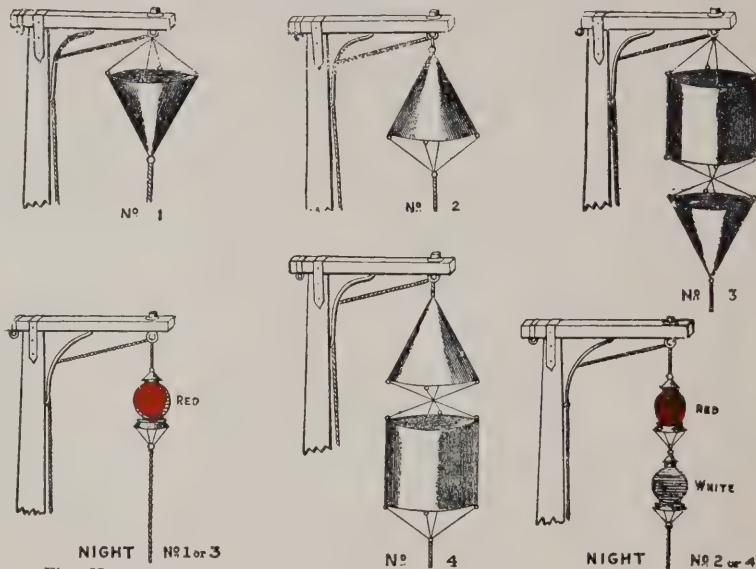


Fig. No. 1.—This signal indicates the probability of a gale, at first from an Easterly direction.

Fig. No. 2.—This signal indicates the probability of a gale, at first from a Westerly direction.

Fig. No. 3.—This signal indicates the probability of a heavy gale, at first from an Easterly direction.

Fig. No. 4.—This signal indicates the probability of a heavy gale, at first from a Westerly direction.

The night signal corresponding to Nos. 1 and 3 is a red light.

Night signal corresponding to Nos. 2 and 4 is a red light above a white light.

Note I.—Mariners will be able to obtain further information from Signal Agents, or by consulting the daily forecasts.

Note II.—Mariners will always bear in mind that the storm signals do not necessarily mean that storm will occur at the place where the signal is displayed, but that one is expected either there or within such a distance that vessels leaving port would be liable to be caught in it.

Meteorological Office, Toronto.

# The International Ship Masters' Association

SHIP MASTERS SALUTE: 3 long 1 short

SHIP MASTERS DISTRESS SIGNALS: 1 long 4 short 1 long

*Its Aims and Objects*

*Who Are Its Members*

---

*Extracts from Constitution*

## **Article 1—Purpose of the Association**

Sec. 2. The purpose of this Association shall be to improve and elevate the characters of its members, to create a brotherly feeling, to visit the sick, render necessary assistance in case of death, to provide for a beneficiary fund, and to pay the same to the family of deceased members or as may be otherwise directed.



COMPLIMENTS OF

## THE IROQUOIS CLUB

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## EARLY HISTORY OF INTERNATIONAL SHIP MASTERS' ASSOCIATION

In the winter of 1886, the First Mate of the Str. Boston of the Western Transit Company of Buffalo, New York, died. Capt. John H. Ivers, then master of the Str. Fountain City, a propeller in the Western Transit Company, went to the home of the family of his departed friend to offer his services and his sympathy. The widow very reluctantly told Capt. Ivers that she had no money and asked him for the loan of \$50.00 to defray the expense of burying her husband. The Captain, not having that amount with him, told the widow that he would return with the amount later that evening. After leaving the house, Capt. Ivers went to the store of Felthouse & Russel, a vessel supply house located on Main Street, and a place where the licensed officers of steamboats used to congregate and there he met several masters and mates and told them about the circumstances of the deceased mate. Among those present were Capt. Martin Niland, Capt. John Disset, Capt. Wm. Dickson, Capt. James Drake, Capt. Parlane McFarland, Capt. Joseph Hullivan, Capt. James Green, Capt. Patrick Shea, Capt. Lawrence Green, Capt. Frank Welcome, Capt. James Condon, Capt. John Byrne, Capt. Robert Smith and Capt. John Ivers.

Capt. Ivers told his associates that this family needed money and would not be able to pay it back. Capt. Niland then took off his cap, placed a five dollar bill of his own into it, and passed it around; those present at that time, and those who came later, contributed and in a short time the donations amounted to \$125.00. Capt. John Ivers, then master of the Str. Fountain City, and Capt. James Condon, then master of the Str. Arctic, were detailed to take the \$125.00 to the widow, which they did that evening. The widow was very grateful and began to cry, saying that she did not know how she would repay the kindness and that she would pay the money back even if she had to take in washings and that it was her wishes and prayers that no other widow of a Ship Master would be placed in like circumstances upon the death of her husband. The Captains assured her that there would be nothing to pay back as this money was a donation from the friends of her husband, who were employed on the line boats.

After Capt. Ivers and Capt. Condon returned to the store of Felthouse & Russel, a general discussion arose about forming a little society among members of the profession, where in case of death of a member the widow or beneficiary would receive \$100.00, each member being assessed his portion, which was later changed to \$1,000.00.

This being the last of the week it was agreed that a meeting be held on the following Tuesday evening in a small hall above the vessel supply store (the use of the hall being donated by the owners of the store) for the purpose of organizing a beneficial association.

Fifteen licensed officers of the line boats assembled in the hall above the store on the following Tuesday evening and Capt. Wm. Dickson was elected chairman, and later the same evening was elected president; and Capt. James Condon was elected secretary. Capt. John Disset was appointed a committee of one to take the necessary steps to secure a charter for this new society, then known as the Excelsior Marine Benevolent Association. Board of Managers names as follows: Wm. Dickinson, Valentine Jones, George S. Hogg, John H. Dessett, Donald Gillies, John Cornish, Lawrence Green.

The managers and owners of the different steamboat lines, thinking that this new association was a labor organization later to become affiliated with the Knights of Labor, objected to their masters and mates joining it. But when it was explained to them the purpose of the organization, and that it was never to be a labor organization and always to be a Benevolent Association, they withdrew their objections and offered to help make up the \$100.00 that was to go to the beneficiary on the death of a member, in case there was a shortage.

A meeting was held every Tuesday evening until the charter was secured from Albany, New York. After securing the charter, a discussion arose about numbering the members as they joined the Association. Owing to the fact that Capt. Niland had rendered the new association such valuable service, along the line of creating a favorable opinion of this Association among the vessel managers and owners, the members thought it fitting to honor him by giving him Number 1.

Capt. John Disset thought that if honors were being given that he, too, should be given a small number in place of Number 15. None of the members cared to give up their numbers until Capt. John Ivers spoke up and said, "I will change with Capt. Disset and take Number 15 instead of Number 4."

Later in the spring, when it became known that the owners and managers did not object to their licensed men belonging to this Association, seven more men were taken in before the opening of navigation, making a membership of twenty-two the members then thinking themselves in a flourishing condition.

The wife of Capt. Disset (who was formerly a schoolteacher) with the aid of an attorney (who was a friend of the family) drew up the first constitution and by-laws and also secured the first ritual. This constitution, by-laws and ritual were changed in January, 1891, when the Grand Lodge was formed in Buffalo.

In the winter of 1887 and 1888, in order to increase the membership of Buffalo Lodge, Capt. Ivers solicited new members in Port Huron; but the men of Port Huron thought they should have a lodge of their own in town. Capt. Ivers then wrote Capt. Alexander Clark, who was at that time President of Buffalo Lodge, for information in regard to forming a new lodge in Port Huron. Capt. Clark's reply was that he would take the matter up with the officials in Albany, New York, from whom they had secured the Buffalo charter.

In due time, Capt. Ivers of Port Huron received word from Capt. Alexander Clark of Buffalo that a lodge could be organized in Port Huron as a branch of the Buffalo Lodge, to work under the Buffalo Lodge's charter; and that if twenty prospective members could be secured he would come to Port Huron and organize Lodge Number Two. In a few days he came to Port Huron and organized with a charter membership of twenty-two.

Capt. Ivers then withdrew from Buffalo Lodge, and joined Port Huron Lodge, becoming its president for the winter of 1888-1889 and was also delegate to Buffalo in the year 1891 at the time that the Grand Lodge was formed with Capt. Alexander Clark its first president, the Grand Lodge still retaining the name E. M. B. A. which in 1893 was changed to Ship Masters' Association.

The first convention of the various branches of the Association was held in Buffalo, New York, January 8, 1891. Each lodge was entitled to two delegates for every twenty-five members. What is designated as the Grand Lodge was then formed and the officers were selected from the different local lodges.

The second meeting of the Grand Lodge was held in Cleveland, January 21, 1892; seven lodges, with a membership of 800 masters, were represented. The growth of the Association during the year was remarkable, showing an increase of 120 per cent. The treasurer's report showed that during the year \$9,000 had been paid out in death benefits. The old officers were reelected.

The third meeting of the Grand Lodge was held at Port Huron, Mich., January 17, 1893. Nine lodges, with a membership of 900, were represented. The reports showed that \$11,840 had been paid in death benefits. At this convention the constitution was amended to some extent and the name changed to Ship Masters' Association. The old officers were again chosen.



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On January 16th, 1894, the fourth annual convention was held in Chicago. The reports showed that the association had been prosperous in both numbers and finance, and that the new or amended constitution was working well. The reports of the President showed that there were 1,000 members enrolled in the Order, out of 1,086 masters of steam crafts reported by the commissioner of navigation, thus making it evident that most of the licensed masters on the lakes had been members of the Association. The Secretary's report showed that during the year, \$12,500 had been paid to widows and orphans of departed members. The first officers were again elected, as they had shown themselves diligent and active in their efforts to bring the Association to a successful and prosperous condition.

The fifth annual meeting was held in Detroit, January 15, 1895. The President's report stated that, although the season had been a bad one, the Order was in a flourishing condition. During the year, \$13,742 had been paid out for death benefits. New pilot rules were thoroughly discussed and carefully revised, and the bill known as the White or Goulder bill was indorsed by the convention. The provisions and details of this bill had been advanced by experienced members of the Association. At this meeting the mantle of the presidency fell upon the shoulders of Captain C. E. Benham of Cleveland Lodge, the other officers being re-elected.

The sixth annual meeting was held in Washington, D. C., at the usual time, January, 1896, and the Treasurer and Secretary's report showed that nine death assessments were paid during 1895. The honor of holding the presidency of the Grand Lodge, having been held in Buffalo for some time, came to Cleveland for one year and was then captured by Detroit through the election of Bro. George McCullagh. Business of importance was transacted with the different government departments.

The seventh annual meeting of the Grand Lodge was held in Washington, D. C., January 21 to 23, and the wisdom of transacting annual business at the capital where the delegates were in touch with the officers of the steamboat inspection service was again shown, although it was decided, on account of the expense, to hold the next meeting in Milwaukee. It was found by the Secretary's and Treasurer's reports that 11 death claims, \$11,000 had been paid during the year, and the Endowment Fund showed a balance of \$1,190 on hand. The salaries and expenses, chargeable to the General Fund, amounted to \$2,780.68, leaving a balance of \$1,913.54 on hand. The Grand Lodge lost by death its worthy and efficient First Grand Vice-President.

Since 1897, the Grand Lodge has been held several times in Washington, also in nearly every principal port on the Great Lakes.

#### History of Buffalo Lodge, No. 1.

After organization and adopting a constitution the Buffalo Lodge, No. 1, at its next meeting proceeded to choose its officers, which resulted in the election of William Dickson for President; Edward Condon, Vice President; and John Disset, Secretary. The charter members were Messrs. Niland, Green, Condon, Carlisle, Drake, Williams, McFarland, Halligan, Sked, Byrne, Smith, Ivers, Camish, Dunn, Jones, Gillies, Disset, Dickson, Gardner, Provort, Hogg, and O'Neil. In the fall following, a large hall in Washington Street was rented, and after the election of Alexander Clark to the Presidency, they secured better quarters in the parlors of the Hesper. Seeing the pleasant and comfortable quarters, the Captains commenced to enroll themselves as members, and the lodge began to fill rapidly. Interesting subjects were discussed at the meetings and the social phase of the movement began to manifest itself. At this time President Clark was ably assisted by Messrs. Frank Welcome, who was vice-president, and J. M. Todd, who was secretary. In the winter of 1887 President Clark and F. D. Welcome started on a tour of organization and succeeded in forming a number of lodges at different lake ports.

#### History of Port Huron Lodge, No. 2.

Masters residing at Port Huron, Mich., were the first to enroll themselves and extend the hand of fraternity to the Buffalo Lodge, in February, 1888. The Port

Huron Lodge met in temporary quarters until 1891, when the increased membership encouraged a permanent meeting place, and in 1891 a large hall, in the Jenkinson block, was leased and No. 2 fitted up apartments, consisting of lodge room and reading room newly furnished throughout. The first officers of Port Huron Lodge were: F. H. Danger, president; Geo. Tebo, first vice-president; Wm. Curtis, second vice-president; W. Hutchinson, secretary; Thos. Cowan, treasurer.

The lodge has a large and active membership, including in its ranks as honorary members over fifty of the best business men of Port Huron.

#### History of Chicago Lodge, No. 3.

The first steps taken towards the organization of this lodge was on January 25th, 1890, when Captain Alex. Clark and Captain F. D. Welcome, of Buffalo, N. Y., called upon Captain Robert Young and Captain J. Hogan, of Chicago, to assist them in obtaining a sufficient number of prominent masters of steamships, for the purpose of organizing a lodge here. Their efforts met with prompt success and an organization was perfected by eleven members being initiated, in H. Channon & Co.'s sail loft. An adjournment was then taken until January 27th, when a meeting was held in a hall at the corner of West Randolph and Ada Streets and four more applicants were initiated. These fifteen members then proceeded to elect officers of the lodge, and who were duly installed in their offices, namely: J. Hogan, president; William Chamberlain, first vice-president; James M. Comstock, second vice-president; William Turney, treasurer, and J. A. Connelly, recording secretary. At a subsequent meeting, a month later, Captain F. B. Higgin was initiated as a member and was installed as the financial secretary of the lodge.

#### History of Cleveland Lodge, No. 4.

After establishing the Chicago Lodge the organizers visited Cleveland and without much delay succeeded, with the aid of Capt. Ed. Kelley and Capt. John Nelson (both now deceased), in getting together a sufficient number of masters for a preliminary meeting in Van Tassel's hall, on Detroit Street. This meeting was called to order by Capt. William Cumming. The constitution was then read, reciting that the aims were for mutual improvement, and that it should not become a labor organization. Capt. Cumming was the first to indorse the project. The Cleveland lodge was then organized and Capt. Ed. Kelley was chosen president; Capt. John Hall, first vice-president; Capt. William Cumming, second vice-president; Capt. John Nelson, treasurer; Capt. W. A. Collier, financial secretary; and Capt. Edward Mooney, recording secretary. In the winter of 1891 it was thought that more commodious quarters were necessary, and rooms in the old Board of Trade building, at 122 Water Street, were secured, consisting of lodge room, reading room, and club room, all of which were newly furnished in 1895. A valuable library, chart table, and mariner's globe, two billiard tables, card, whist and checker tables, desks, in addition to all necessary furniture, made the rooms very attractive. The drawers of the chart table contained all the charts published of fresh water localities, and the most important of the charts relating to salt water navigation.

The Cleveland lodge has the largest membership of the association and its pleasant rooms are very generally used by the members during the winter months.

#### History of Bay City Lodge, No. 5.

Bay City Lodge was organized on February 24th, 1890, in the office of C. H. Weeks, at Bay City, by Brothers Robert E. Gain and Frank Welcome, with the following charter members: D. M. Pierce, president; Henry Bennett, first vice-president; Geo. H. Lester, second vice-president; Jos. G. Souer, treasurer; Herman Bennett, secretary; Ed. Ballentine, marshal; Geo. Smith, warden; C. M. Saph, sentinel; John Cassada, chaplain.

The Lodge continued to hold their regular meetings in the above mentioned quarters till April 10th, when they adjourned till November 11th, 1890. We then



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procured more suitable rooms in a block known as the Watson Block, where we have continued to hold our meetings ever since.

Capt. D. M. Pierce continued to reside until February 2d, 1895, during which time the Lodge continued in a fairly prosperous condition, with a membership numbering 67, in 1892, but owing to the scarcity of material this number was never exceeded, and owing to lapses and other reasons, best known to themselves, many of our members dropped out, so that in 1894 we had but 43 members in good standing. This charter was surrendered and Lodge No. 5 ceased to exist.

#### History of Milwaukee Lodge, No. 6.

In February, 1891, the attention of the organizers was turned toward Milwaukee, where they were met with much enthusiasm, and a charter was granted in response to a petition with thirty-seven names, and rooms were secured on Reed Street. At the first election of officers, Capt. James Leisk was chosen president; F. C. Maxon, first vice-president; W. F. McGregor, second vice-president; and L. R. Vance, secretary. The Milwaukee Lodge has grown strong in numbers as years have passed, and has now, perhaps, the most valuable library in the order. The lodge was assisted in collecting this library by wealthy and influential citizens, who contributed \$600.00 for that purpose, adding \$500.00 more for furnishing the lodge rooms. Owners find that it is good policy to encourage this order, as a vast amount of good springs from it.

#### History of Detroit Lodge, No. 7.

Detroit mariners, who had been labored with in the spring of 1890, without result, expressed a desire to form a lodge, and in March, 1891, Grand President Clark responded, accompanied by the father of the order, Captain Martin Niland, who acted as Grand Marshal. This lodge was organized with 34 charter members, and Capt. George McCullough elected president; Charles L. Wilson, vice-president; and John C. Shaw, secretary. By April the membership had increased to 90. The following fall the members rented a large hall at the foot of Woodward Avenue and fitted it up in elegant style. In the new quarters is a library, well stocked with useful books, a reading room, club room and meeting room.

#### History of Marine City Lodge, No. 8.

The Marine City masters were the next to fall into line, and on February 10, 1892, a lodge was organized at that port by Grand Secretary W. A. Collier, Capt. R. E. Gain and Alex Sinclair. Twenty-five names were recorded as charter members, and the organization was perfected by the election of Capt. T. S. Walker as president, Capt. Ed. Allum as vice-president, and W. H. Scott as secretary. While there are many lake masters residents at Marine City, the lodge cannot be as strong in number as some of the others on account of many of the contiguous ports coming under the jurisdiction of Port Huron on one side and Detroit on the other.

#### History of Toledo Lodge, No. 9.

The organization was effected in 1892 by Grand President Clark, and Grand Secretary, W. A. Collier, assisted by Capt. George Stoddard, of Toledo, who was lost on the Dean Richmond in the fall of 1892. Captain Stoddard was elected president, vice-president, and E. G. Ashley, secretary. Under Captain Stoddard's administration this lodge grew fast, and he was recognized as one of the ablest officers in the association. The lodge had elegant and comfortable quarters in the Marine Building, the meetings were well attended and great interest was shown in the movement.

#### History of Ogdensburg Lodge, No. 10.

Capt. James A. Walsh deserves the credit for the organizing of Lodge No. 10. Capts. John MacDonald of Marine City and John St. Clair of Port Huron came here on January 30th, 1909, after the Grand Lodge meeting at Washington and instituted the Lodge with the following officers: S. V. Anderson, president; M. A. Leonard, first vice-president; John Hanley, second vice-president; Charles Nelson, treasurer;

H. A. Murphy, secretary; J. J. Powers, chaplain; C. A. Dunn, marshal; Arthur Nelson, warden, and Henry Russel, sentinel. The following are the charter members of this lodge: S. V. Anderson, M. A. Leonard, H. A. Murphy, J. H. Handly, C. O. Nelson, J. J. Powers, C. A. Dunn, A. C. Nelson, H. A. Russell, D. O. Murphy, W. J. Stitt, W. J. Doyle, J. J. Smith, Geo. Kinch, Thos. J. Bell, W. G. Malby, Wm. V. Woods, Sidney Lebeau, E. B. Shay, John W. Goodrich.

#### History of Algonac Lodge, No. 11.

Lodge No. 11 was organized February 15th, 1909; John H. McDonald, Grand President, and E. G. Ashley, Grand Secretary, organized this lodge. The charter members were Capt. M. M. Stewart, president; Capt. J. P. Stewart, vice-president; F. D. Galton, second vice-president; D. A. Kendall, treasurer; F. R. Henninger, recording secretary; James Macomb, marshal; Sam Kenworthy, warden; and George Deambu, secretary.

#### History of Twin Ports Lodge, No. 12.

A number of shipmasters living in Duluth and Superior were called together by Capt. Albert Swenson at the U. S. Hydrographic Office, Duluth, Minn., on February 27th, 1911, to organize a Shipmaster's Lodge. The correspondence from Grand President, Capt. James G. Herbert, regarding the conditions for instituting a Shipmasters' Lodge at Duluth, was read by Capt. Albert Swenson, and it was then moved and supported that a Shipmasters' Lodge be organized. On March 20, 1911, a meeting was called at the U. S. Hydrographic Office, as a charter had been received from Capt. James G. Herbert, Grand President Shipmasters' Association, and Capt. G. H. Vrooman had been deputized by the Grand Lodge Officers to organize the lodge to take obligations from all masters present.

The following officers were elected for the ensuing year of 1911: Wilson McGregor, president; Albert Jones, first vice-president; J. E. Doherty, second vice-president; J. C. LaVaque, treasurer; Albert Swenson, financial secretary; Albert Swenson, recording secretary; Frank Moore, chaplain; M. B. Glockle, marshal; Martin Glenn, warden, and Harry C. Ashby, sentinel.

The charter members were as follows: Albert Swenson, Albert M. Jones, M. B. Glockle, A. A. Causley, Fred R. Slater, Wm. B. Chamberlain, Frank Freshette, Henry Fox, Fred Hokason, John E. Doherty, Einer Miller, Harry F. Brower, Frederick Wm. Davis, Harry C. Ashby, Martin E. Glenn, Walter S. Lloyd, John Charles LaVaque, Oswald Murphy, Patrick H. Fleming, William E. Hoy, Charles H. Green, D. T. Sullivan, Henry Johnson, Thomas A. McDougall, Chester Massey, Frank Moore and Wilson McGregor.

#### History of St. Clair Lodge, No. 14.

The St. Clair Lodge was organized March 16th, 1912, with twenty-nine charter members, as follows: Capt. A. C. Smith, F. G. West, Jos. W. Auttersson, Joseph B. Rinn, Joseph Lowes, Thomas F. Doner, James Doner, George O. Reece, Nelson Brown, John Hollingshead, William Wright, Jesse Brines, Joseph C. Burk, William Hamilton, Charles Hallett, R. O'Connor, John C. Pringle, Herbert Finnigan, Thomas N. Conlin, William Greening, Wesley C. Brown, F. L. Meno, Arnold R. Morse, William Kenyon, Eugene Hayward, John T. Auttersson, Gus Hartman, Charles Hartman, Jr., and Robert Campbell.

The first officers of St. Clair Lodge, No. 14, were A. C. Smith, president; Joseph Lowes, first vice-president; Joseph Auttersson, second vice-president; R. O'Connor, treasurer; Frank L. Meno, secretary; Fred West, chaplain; A. R. Morse, marshal; John Conlin, warden, and George Reece, sentinel.

The installing officers were John McDonald, past grand president; M. M. Stewart, grand first vice-president; Fred Galton, grand chaplain; Capt. Crosby, grand sentinel; and Capt. A. G. Mahon, grand warden.



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**History of Toronto Lodge No. 15.**

A special meeting of the Grand Lodge of the International Shipmasters Association convened in the Hotel Buffalo, Buffalo, New York, on March 29, 1946, with Grand President Thorpe presiding.

Grand President Thorpe called the meeting to order at 3:00 P. M.

The chairs were filled as follows: Grand President, Bro. Philip E. Thorpe; Grand 1st Vice President, Bro. Henry Wiersch; Grand 2nd Vice President, Bro. Patrick Healy; Grand Treasurer, Bro. Robt. Thompson; Grand Secretary, Bro. John Murray; Grand Chaplain, Bro. Alex Gillies; Grand Marshall, Bro. Ross Maitland; Grand Warden, Bro. Joseph Green; Grand Sentinel, Bro. O. Arthur Toale.

The pass word was collected by the Grand Marshall, who communicated same to the Grand President. Grand President Thorpe declared the pass word duly received.

Bro. Wiersch moved that the Grand Lodge rules be suspended and that the applications be accepted and balloted on collectively. Bro. Healy seconded the motion. The motion was put to a vote and carried.

Bro. Healy moved that hereafter this new organization will be designated and recognized as the Toronto Lodge No. 15. Bro. Murray seconded the motion. The motion was put to a vote and carried.

Bro. Maitland moved that we deviate from the Constitution specifically to grant the privilege of the floor to any and all members present during this ceremony, and to depart from the Constitution in any other instance where adherence to it might retard or embarrass the participants in the ceremony. Bro. Healy seconded the motion. The motion was put to a vote and carried.

Grand Secretary Murray read the applications filed by the proposed candidates of the new lodge.

Bro. Saunders moved that the applications read by the Grand Secretary be accepted as read and that the Grand Treasurer and Grand Secretary afterwards fill in the part of the investigating committee. Bro. Healy seconded the motion. The motion was put to a vote and carried.

The candidates for membership were balloted on and after the ballots were cast, Grand President Thorpe declared the Canadian Candidates duly elected.

The Grand Marshall brought in the new candidates and introduced them for initiation.

Bro. Saunders moved that we dispense with the signing of the Constitution and By-laws by the newly elected candidates. Bro. McDonald seconded the motion. The motion was put to a vote and carried.

Bro. Saunders addressed the new members and made several good suggestions helpful to the organization of their new lodge and pledged full support of the Buffalo Lodge in their efforts.

Grand President Thorpe declared a recess at 4:05 P. M.

The Toronto members then convened in meeting and elected their officers for the ensuing year.

Grand President Thorpe called the meeting to order at 4:30 P. M.

Grand President Thorpe bestowed upon past Grand President Saunders the honor of installing the newly elected officers of the Toronto Lodge. The Grand Installing Officer, Bro. Saunders, then proceeded with the installation as follows:

President, Bro. W. E. Ogg; 1st Vice President, Bro. J. Halstead; 2nd Vice President, Bro. L. Burns; Secretary, Bro. W. Beatty; Treasurer, Bro. A. H. Dixon; Marshall, Bro. C. R. Randle, Jr.; Warden, Bro. C. Crompton; Chaplain, Bro. Wm. Crosson; Sentinel, Bro. J. Stephens.

The Charter for Toronto Lodge No. 15 was presented to the president elect, Bro. Ogg, by Grand President Thorpe.

Past Grand President Maitland delivered a message of congratulations to the new members of the Toronto Lodge.

Past Grand President McDonald expressed his hearty welcome to the new members of the Toronto Lodge.

Bro. Healy moved that the Charter for the Toronto Lodge No. 15 be signed and completed in this meeting and be mailed to the Toronto Lodge. Bro. Murray seconded the motion. The motion was carried.

Also, a set of jewels shall be secured and presented to Toronto Lodge No. 15.

As there was no further business, Grand President Thorpe declared the meeting closed. The lodge closed in due form at 5:20 P. M.

**History of Ashtabula Lodge, No. 17.**

Grand President A. J. Munroe and Grand Treasurer Robert Thompson went to Ashtabula and contacted Capt. Oscar Olsen; they visited prospective candidates in Ashtabula and Conneaut, and received assurance of at least 24 candidates.

Grand President A. J. Munroe, then called a meeting to be held at Hotel Ashtabula, Wednesday, April 10th, 1940, at which time Ashtabula Lodge No. 17 was organized with 16 Active members, 5 Honorary members and 5 Associate members.

Credit should be given Capt. Oscar Olsen for his effort in securing the new candidates for Lodge No. 17.

The following officers were elected for ensuing year 1940:

Oscar Olsen, president; Ralph Hagerty, first vice-president; Wm. T. Simon second vice-president; John Keeley, secretary; Wm. T. Simons, treasurer.

Grand President A. J. Munroe should be complimented on his efficiency in organizing Ashtabula Lodge No. 17, as this is the first lodge to be organized in 28 years.

Grand lodge officers present were Capt. A. J. Munroe, grand president; Capt. Robert Thompson, grand treasurer and Capt. M. S. Peterson, grand secretary.

The following Ship Masters were present during the organizing of Lodge No. 17, from Buffalo, Cleveland and Erie:

M. J. Brown, P. G. P.; W. L. Girardin, P. G. P.; Wm. S. MacDonald, P. G. P.; T. H. Saunders, P. G. P.; L. W. Smith, President, Lodge No. 4; Archibald MacLean, President, Lodge No. 1; W. H. McNeill, Chas. Gonyaw and Harold Jacobsen.



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2	Harold T. Simpson, 1233 Tenth Ave., Port Huron, Mich.....	47
3	Capt. Fred Huntman, 5956 N. Neva Ave., Chicago, Ill.....	34
4	Roman T. Keenan, 1197 Webb Rd., Lakewood 7, Ohio.....	208
6	Capt. C. W. Basch, 3113 S. Penna Ave., Milwaukee, Wis.....	51
7	Capt. R. E. Hayward, 17320 Melrose Ave., Detroit 35, Mich.....	53
8	Capt. John D. Baird, 605 Main St., Marine City, Mich.....	7
9	Capt. Alfred J. Gaffney, 614 Robindale Ave., Toledo 5, O.....	53
10	Robert J. Regan, 822 State St., Ogdensburg, N. Y.....	11
11	Capt. Ross Campbell, 9454 St. Clair River Dr., Algonac, Mich.....	5
12	Capt. James Larsen, 2335 John Ave., Superior, Wis.....	91
15	Capt. T. J. Houtman, Cooksville Post Office, Ontario.....	99
16	One remaining .....	1
17	Louis W. Vettel, 3515 Lake St., Ashtabula, Ohio.....	33

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## ASSOCIATION HEADQUARTERS.

## Lodge No.

1. Buffalo, N. Y. ....	Hotel Buffalo
Tuesdays at 2:30 P. M.	
2. Port Huron, Mich. ....	Jenkinson Block, Military and Water Sts.
Thursdays, 2:30 P. M.	
3. Chicago, Ill. ....	LaSalle Hotel
Thursdays, 2:00 P. M.	
4. Cleveland, Ohio ....	1515 Euclid Ave.
Thursdays, 2:00 P. M.	
6. Milwaukee, Wis. ....	Republican House
Thursdays, 2:00 P. M.	
7. Detroit, Mich. ....	Barlum Hotel
Tuesdays, 2:30 P. M.	

## Lodge No.

8. Marine City, Mich. ....	Zimmerman Block
1st and 3rd Saturdays, 7:30 P. M.	
9. Toledo, Ohio ....	Hotel Secor
1st and 3rd Thursdays, 7:30 P. M.	
10. Ogdensburg, N. Y. ....	Darrows Hotel, Washington, St.
2nd and 4th Mondays, 7:30 P. M.	
11. Algonac, Mich. ....	Lake Carriers Room
Thursdays, 2:30 P. M.	
12. Duluth, Minn. ....	Elks Club Rooms
1st and 3rd Tuesdays, 3:00 P. M.	
17. Ashtabula, Ohio ....	1105 West 5th St.
Wednesdays, 7:30 P. M.	



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**BAY CITY, MICH.**

## LIST OF ACTIVE MEMBERS

27

Pennant	Lodge	Name	Address	City	Pennant	Lodge	Name	Address	City
9484	15	Adams, Harold	City Hotel	Humberstone, Ontario, Can.	9324	15	Barrett, Harvey	595 11th St., A. West	Owen Sound, Ont.
9544	15	Adams, Maurice	57 Humboldt St.	Port Colborne, Ont.	9411	1	Bartels, Donald E.	328 Northland Ave.	Buffalo, N. Y.
9266	15	Ahern, Stephen	Port Weller Ship Yards	Ont.	3338	6	Basch, Carl W.	3113 S. Penna. Ave.	Milwaukee, Wis.
1940	6	Alexander, A.	1101 Milwaukee St.	Kewaunee, Wis.	3619	4	Bauman, Earl C.		Vermilion, O.
3514	4	Allen, Thomas A.	1249 W. Clifton Blvd.	Lakewood 7, O.	9219	15	Bazeley, H. Bertram	286 Kathleen Ave.	Sarnia, Ont.
9195	12	Almstedt, Angus B.	3616 East 3rd St.	Superior, Wis.	8073	4	Beam, Donald S.	309 W. 26th St.	Lorain, O.
9336	12	Almstedt, Harvey C.	R. R. 1, Box 60	So Range, Wis.	9238	15	Beatty, Albert W.	160 Hugel Ave.	Midland, Ont.
9024	6	Andersen, Theo. R.	4560 N. 29th St.	Milwaukee 16, Wis.	9214	15	Beatty, W.	16 Hunter St.	Toronto, Ont.
5008	12	Anderson, Arnold R.	538 North 3rd St.	L. Anse, Mich.	3483	7	Becker, Frank	472 Harding, Apt. 107	Detroit, Mich.
1368	4	Anderson, C. A.	2791 Wagar Road	Rocky River 16, O.	9337	15	Bell, Grant E.	180 Clarence Ave.	Port Colborne, Ont.
9056	6	Anderson, Cornell	532 1/2 Hampton Rd., W.	Palm Beach, Fla.	6094	3	Bell, Samuel	7534 Woodlawn Ave.	Hammond, Ind.
5007	12	Anderson, Danforth	36 West Mankato	Duluth, Minn.	928	4	Benham, W. P.	South Anchorage	Coronado Beach, Fla.
3246	6	Anderson, E. M.	830 E. Mason St.	Milwaukee, Wis.	9303	12	Benson, Otto A.	1812-42nd Ave., East	Superior, Wis.
1513	6	Anderson, G. E.	1550 N. 50th St.	Milwaukee, Wis.	8091	12	Berg, Arthur C.	225 W. Blain St.	Alpena, Mich.
7007	4	Anderson, H. A.	1241 Webb Rd.	Lakewood, O.	5014	3	Berg, Toralv A.	404 Carlisle Way	Norfolk 5, Va.
2166	3	Anderson, H. E.	3916 N. Whipple St.	Chicago 18, Ill.	8070	12	Berglund, John H.	Star Route	Solon Springs, Wisc.
6075	12	Anderson, H. H.	810 E. 8th St.	Superior, Wis.	1193	7	Bertrand, Frank	13977 Sussex Ave.	Detroit, Mich.
1321	4	Anderson, Mathew	22180 Hadden Rd.	Euclid, O.	9019	1	Betz, Charles T.	8706 Carnegie Ave.	Cleveland, Ohio
1641	17	Anderson, P. A.	Norman Ave.	Ashtabula, O.	2476	9	Biddlecome, F.	4234 Pine Grove Rd., R.6	Port Huron, Mich.
9350	2	Anderson, S. G.	549 N. 3rd St.	St. Clair, Mich.	9355	1	Bigelow, Thos. B. Jr.	Box 76	Alpena, Mich.
9540	15	Andrews, J. M.	272 Ontario St.	Coalingwood, Ont.	9244	15	Bissette, J. A.	60-37th St.	Long Branch, Ont.
9237	15	Angus, R. B.	466 Durie St.	Toronto, Ont.	9188	1	Blackstone, W. Goss	36 Woodridge Ave.	Buffalo 25, N. Y.
9194	12	App, William R.	916 Ninth Ave., E.	Duluth 5, Minn.	9360	4	Blue, Chas. L.	13310 Liberty Ave.	Cleveland, O.
9027	4	Appell, William G.	114 Madison St.	Sandusky, O.	9537	6	Bohl, Jack D.	2722 A. S. Shore Dr.	Milwaukee, Wisc.
1569	7	Archer, A. A.	Route 6	Mt. Clemens, Mich.	9089	9	Bollin, Frederick J.	1521 Starr Ave.	Toledo 5, Ohio
8049	1	Armstrong, Stuart	202 Stillwell Ave.	Kenmore 23, N. Y.	9158	1	Bordonaro, Jos. M.	RFD. No. 1, Dover Rd., Lake View	N. Y.
2606	12	Arnsten, Theo. A.	619 E. 1st St.	Duluth, Minn.	9142	12	Borgen, John E.	17186 James Couzens Highway	Detroit 21, Mich.
9407	4	Ashby, G. Howard	1343 Gladys Ave.	Lakewood, O.	3559	4	Borreson, Walter	19250 Telbir Ave.	Rocky River, O.
2988	4	Ashby, Harry	1341 Gladys Ave.	Lakewood 7, O.	9536	2	Bott, Harry T.	5668 Flinchbaugh Rd.	Port Huron, O.
671	6	Ashley, W. A.	2859 W. Cramer St.	Milwaukee, Wis.	9111	4	Bouille, L. D.	9823 Lake Ave.	Cleveland, O.
5094	4	Attridge, Thomas J.	19140 Detroit Rd.	Rocky River 16, Ohio	9139	4	Bourne, Robert E.	12927 Triskett Rd.	Cleveland, O.
3494	4	Austin, Louis G., Jr.	2117 Bunts Rd.	Lakewood 7, Ohio	9443	4	Bowman, Wm. H.	1650 Robinwood Ave.	Lakewood, O.
9329	12	Autterson, John G.	4731 Grand Ave.	Duluth, Minn.	9374	15	Bradley, Edmond M.	505 Sherbourne St.	Toronto, Ont.
9183	7	Autterson, Lawrence	351 West Portage Ave., Apt. No. 10	Sault Ste. Marie	9397	4	Bradley, John C.	1712 E. 9th St.	Cleveland 14, O.
9116	6	Baake, Charles	Box 113	Dyer, Indiana	9317	15	Brady, Frederick J.	213 Young St.	Midland, Ont.
9082	7	Baganz, Edward C.	500 Barrington Rd., Grosse Pointe Pk., 30, Mich.		9489	1	Branshaw, Wm. H.	231 Second St.	Oswego, N. Y.
1960	8	Baird, J. D.	605 Main St.	Marine City, Mich.	9098	1	Braun, Howard C.	1438 Huntington	Buffalo 14, N. Y.
9068	6	Bamford, Percy A.	3135 A. N. 50th St.	Milwaukee 10, Wis.	8093	9	Bready, Melburn R.	3633 Martha Ave.	Toledo 12, Ohio
9156	1	Banks, Marshall A.	12 Boswell Place	Tonawanda, N. Y.	9245	15	Brennan, John	45 Minnesota St.	Coalingwood, Ont.
					9425	2	Bright, Robert L.	2839 Omar St.	Port Huron, Mich.
					5016	3	Brightstone, Bert	2315 N. Kenneth Ave.	Chicago, Ill.



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BAY CITY, MICHIGAN

## LIST OF ACTIVE MEMBERS

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Pennant	Lodge	Name	Address	City	Pennant	Lodge	Name	Address	City
3684	2	Brinker, C. J.	403 Vine St.	St. Clair, Mich.	9547	12	Conlin, Herbert	430 N. 22nd Ave. W.	Duluth, Minn.
3669	7	Brisette, Leo. J.	510 S. Euclid Ave.	Bay City, Mich.	3002	8	Conlin, J. M.	Port Lambton	Ontario, Can.
1651	1	Brooks, Wm. H.	437 East Ave.	Lockport, N. Y.	9477	4	Connolly, Thomas J.	18231 Winslow Rd.	Shaker Hts. 22, O.
9549	4	Brose, Robert A.	428 Kinsey Ave.	Kenmore, N. Y.	9410	1	Conrad, John	310 Parkdaie Ave.	Buffalo, N. Y.
2034	12	Brower, H. F.	427 2nd Ave.	Two Harbors, Minn.	2102	6	Cook, Jacob F.	1324 So. 14th St., Apt. 7	Milwaukee 14, Wis.
9049	1	Brown, Paul C.	15445 Parkwood Dr.	Monroe, Mich.	9526	10	Cordwell, D. S., Jr.	415 Mansion Ave.	Ogdensburg, N. Y.
3168	7	Brune, Frank A.	3256 Blaine Ave.	Detroit, Mich.	8037	1	Cornwell, Wilber R.		Cheektowaga 21, N. Y.
9192	4	Brunelle, George J.	17503 Invermere	Cleveland 20, Ohio	9290	15	Corson, J. K.	160 Jane St.	Toronto, Ont.
9246	15	Buchanan, J. A.	178 Dufferin Ave.	Belleville, Ont.	9424	8	Cottrell, Charles F.	414 Pearl St.	Marine City, Mich.
2972	4	Buckley, H. L.	1486 Bunts Rd.	Lakewood, O.	9297	12	Courchaine, Victor J.	725 N. 43rd Ave.	West Duluth, Minn.
9262	15	Burden, Leslie E.	35 Cline Ave.	North Hamilton, Ont.	9052	4	Cowan, James A.	1355 Marlowe Ave.	Lakewood 7, O.
2106	7	Burke, Joseph C.	1058 N. Riverside Dr.	St. Clair, Mich.	6096	4	Craig, John P.	382 4th Ave.	Mansfield, O.
9426	15	Burke, Robert R.	213 Midland St.	Midland, Ontario, Can.	3690	4	Craun, Wilbur M.	8 Savoy Court, % Rae Hart,	Lansing 21, Mich.
9368	15	Burmister, Fred'k M.	278 Ontario St.	Collingwood, Ont.	9463	15	Crawford, D.	117 McAlpine St.	Welland, Ont.
9212	15	Burns, Linden	251 11th St., A. West	Owen Sound, Ont.	9514	15	Crawford, Leighton	174 Main St.	Port Dalhousie, Ontario
1577	4	Burt, Geo. G.	326 North J. St.	Lake Worth, Fla.	9087	4	Crawford, Robert Jr.	43 Buckingham Rd.	Rocky River, O.
5074	7	Calam, Walter W.	Box 114	Amherstburg, Ont.	2531	4	Crerar, John	1317 W. 108th St.	Cleveland, O.
6029	7	Campbell, John M.	2709 Lakeview Rd.	Rocky River, O.	9230	15	Crompton, C.	134 Steele St.	Port Colborne, Ont.
2071	11	Campbell, Ross	9454 St. Clair River Dr.	Algonac, Mich.	9217	15	Crosson, William A.	31 Christmas St.	Port Colborne, Ont.
9448	2	Capling, Leo E.	250 So. 5th St.	Harbor Beach, Mich.	2418	3	Cullnan, P. J.	1909 Newport Ave.	Chicago, Ill.
2973	6	Carlisle, C. C.	3330 N. Sherman Blvd.	Milwaukee, Wis.	9206	3	Cullnan, P. J., Jr.	1909 Newport Ave.	Chicago, Ill.
9495	4	Carlson, Axel H.	116 Thompson St.	Buffalo, N. Y.	9340	4	Cummings, John I.	1219 Hathaway Ave.	Lakewood 7, Ohio
9402	12	Carlson, John C.	617 N. Ninth Ave. E.	Duluth, Minn.	9491	4	Cuper, John	507 West 29 St.	Lorain, O.
9203	3	Carpenter, Harry	10126 Oglesley Ave.	Chicago 17, Ill.	9505	1	Curry, Ralph	52 Danforth St.	Buffalo, N. Y.
9051	4	Chamberlain, G. V.	119 Condrey St.	Sandusky, O.	9293	1	Czuprynski, Anthony W.	Edgewater Park Hotel, East River Rd.	Grand Island, N. Y.
9070	10	Chateau, Ralph	200 Denny St.	Ogdensburg, N. Y.	9351	2	Daggitt, Clarence F.	613 White St.	Port Huron, Mich.
9091	7	Chickonoski, A. J.	625 Ashland Ave.	Detroit, Mich.	3210	4	Dahlburg, Theo.	3079 W. 155th St.	Cleveland, O.
3525	6	Christensen, C. M.	2348 E. Oklahoma Ave.	Milwaukee, Wis.	9442	9	Damas, Hugh P.	710 Barclay Dr.	Toledo, O.
8069	4	Chrystal, Ralph G.	1446 Coutant St.	Lakewood 7, O.	2643	4	Davenport, F.	1611 Orchard Grove Ave.	Lakewood, O.
1085	7	Clark, A. A.	215 Gray-Roy Drive	Goshen, Ind.	9521	4	Davenport, F. L.	24331 Oakland Dr.	Bay Village, Ohio
8011	4	Clark, Robert W.	2082 W. 87th St.	Cleveland, O.	9331	12	Davidowski, W. P.	919 Cummings Ave.	Superior, Wis.
9243	15	Clattenburg, Clyde C.	Box 93, St. Andrews East	Co. Argentevil, P. Q.	9136	4	Davidson, Lincoln J.	1197 East 81st St.	Cleveland 3, O.
1696	6	Claussion, G. T.	427 San Bernardins Ave.	Newport Beach, Calif.	9413	4	Davies, Arthur S. Jr.	26527 Knickerbocker Dr.	Bay Village, O.
3689	2	Cline, Wm. C.	2853 11th Ave.	Port Huron, Mich.	9079	12	Davies, B. F.	3622 Crescent View Ave.	Duluth, Minn.
3396	1	Coffey, Lawrence E.	172 Dorchester Rd.	Buffalo, N. Y.	9215	15	Davies, George H.	69 Roseneath Gardens	Toronto, Ont.
9133	1	Coghlan, Francis J.	2064 Niagara St.	Buffalo, N. Y.	9524	9	Decker, Joseph J.	5516 Edgewater Dr.	Toledo, Ohio
9354	4	Collins, James	3801 Northwood Rd.	University Heights, O.	9386	12	Dee, Thomas A.	1021 E. 3rd St.	Duluth, Minn.
3055	17	Colson, Wm. J.	1965 Prospect Rd.	Ashtabula, O.	2282	4	DeLand, W. A.	1349 Nicholson Ave.	Lakewood, O.

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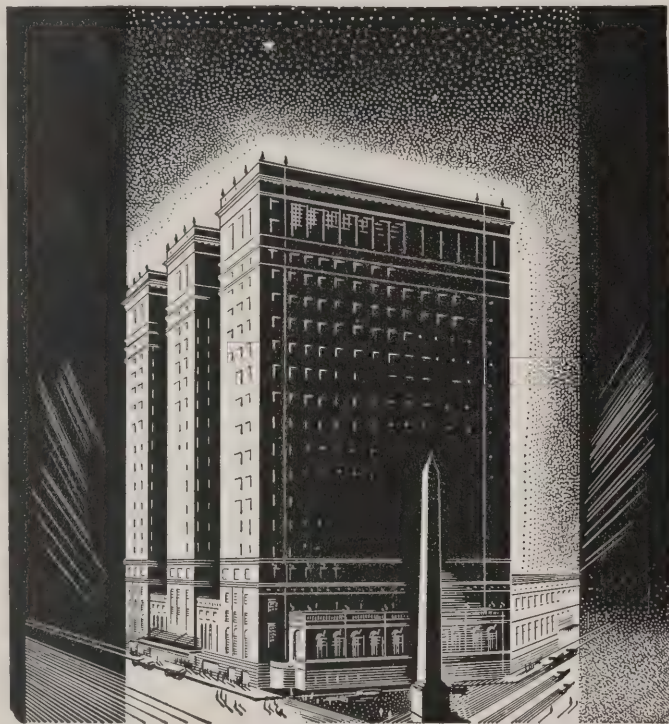
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## LIST OF ACTIVE MEMBERS

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Pennant	Lodge	Name	Address	City	Pennant	Lodge	Name	Address	City
4075	1	Dennis, Arleigh H.	273 Louvain Dr.	Kenmore 23, N. Y.	4072	9	Everett, A. M.	2721-104th St.	Toledo, O.
2989	12	DesJardins, Fred	157 Mariemont Ave.	Buffalo, N. Y.	9432	1	Everingham, L. R.	675 Delaware Ave.	Buffalo, N. Y.
9197	9	Dickens, Charles M.	1009 Fort Park Blvd.	Lincoln Park, Mich.	2992	12	Everson, Harry	916 N. 19th St.	Superior, Wis.
3384	6	Ditlefsen, L. N.	1712 E. 9th St., Apt. 611	Cleveland, O.	3035	1	Fagen, Thomas	83 East Morris Ave.	Buffalo, N. Y.
1668	12	Ditzel, H. E.	3001 Minnesota Ave.	Duluth, Minn.	9189	4	Fairchild, Ralph K.	3391 W. 128th St.	Cleveland 11, O.
9213	15	Dixon, Allen H.	555-14th St. West	Owen Sound, Ont.	3359	1	Farrelly, Lawrence	327 No. Forest Rd., Williams	ville 21, N. Y.
3400	4	Dixon, Frank W.	3110 W. 160th St.	Cleveland, O.	4099	4	Fearer, Wm.	1600 Rockefeller Bldg.	Cleveland 13, O.
501	6	Doak, Jno. A.	2869 S. Wentworth Ave.,	Milwaukee, Wis.	9391	15	Felker, J. A.	314 Kennedy Ave.	Toronto, Ont.
9469	3	Dobratz, W. C., Capt.	4107 N. Spaulding Ave.	Chicago, Ill.	8007	2	Fenton, Ralph T.	524 Orchard St.	St. Clair, Mich.
1719	1	Donahue, Jos.	R. R. No. 1, Box 119-A	Lutz, Fla.	9375	15	Ferguson, George	15 Junkin St.	St. Catharines, Ont.
9440	9	Donner, Norval L.	421 Shelby St.	Sandusky, O.	9124	9	Ferguson, Harry E.	6829 Telegraph Rd., R.R. No. 2,	Erie, Mich.
1539	6	Dority, Frank A.	4317 N. Maryland Ave.,	Shorewood, Wis.	9250	15	Ferguson, John A.	237 Torrens Ave.	Toronto, Ont.
2988	4	Downs, S. Earl	270 E. 191st St.	Euclid, O.	9311	15	Ferguson, John H.		Wiaton, Ont.
9379	3	Drabik, Anton	559 Surf St.	Chicago, Ill.	9231	15	Ferguson, William J.	115A Glengrove Ave.	Toronto, Ont.
9132	4	Drickhamer, H. W.	502 50th St.	Sandusky, O.	2266	15	Ferguson, W. J.	209 So. Marks St.	Ft. William, Ont.
3189	4	Drouillard, A. C.	2116 Northland Ave.	Lakewood, O.	9149	7	Ferson, Shirel D.	1553 Michigan Blvd., Lincoln	Park 25, Mich.
9507	15	Drummond, Robert	239 Humboldt St.	Port Colborne, Ont.	8087	12	Filteau, Walter J.	1909 Banks Ave.	Superior, Wis.
1670	1	Drury, John E.	108 Levering Ave.	Buffalo, N. Y.	9445	1	Finch, Alvin W.	101 Wilbury Pl.	Buffalo, N. Y.
9492	9	Dube, Ralph C.	746 Kipling Dr.	Toledo, O.	2069	2	Finnegan, Herbert	105 No. 5th St.	St. Clair, Mich.
4027	17	Duclon, Claire	Austinburg Rd., RFD No. 3.	Ashtabula O.	9038	2	Finnigan, Edwin H.	617 Westminster St.,	Marine City, Mich.
1566	6	DuClos, Napoleon	3113 So. Pennsylvania Ave.,		3420	4	Fitch, Clarence W.	12001 Buckingham Ave.	Cleveland, O.
			c/o M. D. Mackey	Milwaukee 7, Wis.	3551	4	Fitch, Edward Jr.	530-48th St.	Sandusky, O.
3536	9	Duda, Thomas E.	R. F. D. 1	Harbor Beach, Mich.	9304	4	Fitch, James F.	4147 W. 204th St.	Fairview Park, O.
3579	4	Duffett, John G.	3711 Dover Ave.	Cleveland, O.	9414	4	Fitch, Joseph E.	3945 Gary Ave.	Lorain, Ohio
9406	10	Dumont, Charles J.	1126 Ford St.	Ogdensburg, N. Y.	9531	15	Fitzsimmons, A. E.	752 The Queensway	Toronto, Ont.
9177	2	Dunn, Frank T.	3154 Keewahdin Dr.,	Port Huron, Mich.	8015	4	Foster, L. A.	R. R. No. 8, Box 86	Toledo, O.
9308	7	Durant, Thomas E.	21215 Hunt Club Dr.	Harper Wood, Mich.	3190	4	Fotland, Swen	1074 Lakeland Ave.	Lakewood, O.
					9095	9	Fowle, A. C.	3722 Larchmont Pkway	Toledo 13, Ohio
					2030	12	Fox, Henry	Box 954	Two Harbors, Minn.
8012	7	Edwards, Melvin	17175 Griggs Ave.	Detroit, Mich.	9233	15	Fox, James Eric		Wiaton, Ont.
9444	4	Edwardsen, John H.	13413 Northbrook Ave.	Cleveland, O.	9392	15	Fraser, John R.	101 Ossington Ave.	Ottawa, Ont.
9441	9	Eisenbach, Harold F.	2843-116th St.	Toledo, O.	6052	17	Friend, John R.	821 Poplar St.	Erie, Pa.
1483	4	Ellis, Frank S.	1348 E. 111th St.	Cleveland, O.	2022	2	Frilay, H. W.	10050 Ewing Ave., So.	Chicago 17, Ill.
9343	1	Ellis, James S.	12 Sagamore Ter.	Buffalo, N. Y.	3681	12	Frisbie, Chester W.	1605 E. 5th St.	Superior, Wis.
9126	4	Ellsmere, Harry	7421 Osage Ave.	Cleveland, O.					
9550	4	Ellsworth, R. O., Jr.	1244 Wager Rd.	Rocky River 16, Ohio					
9017	1	Endal, Konrad	638 47th St.	Brooklyn 20, N. Y.					
9422	17	Endleman, C. G.	621 Ohio Ave.	Ashtabula, O.	9169	1	Gable, Harold F.	13 Matejko St.	Buffalo, N. Y.
4000	1	Endleman, Robt. A.	916 Michigan St.	Algonac, Mich.	6068	4	Gaeth, Paul B.	14535 Berchwood Ave.	Cleveland 11, O.
4002	9	Engelsen, John B.	505 46th St.	Sandusky, O.	7001	9	Gaffney, Alfred J.	614 Robindale Ave.	Toledo 5, Ohio
9094	9	Engers, George H.	3434 Anderson	Toledo 13, Ohio	3563	4	Gall, Edwin G.	647 S. Kennsington Rd.	Rocky River 16, O.
1219	4	England, R. W.	12506 Edgewater Dr.	Lakewood, O.	5087	3	Gallagher, A. R.	6718 N. Oconite	Chicago, Ill.
					4028	4	Gallagher, Clyde T.	115 Jaycox Rd.	Avon Lake, O.



Theodore Krueger, General Mgr.  
**HOTEL STATLER**  
BUFFALO

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1952  
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BUFFALO, N. Y.**

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## LIST OF ACTIVE MEMBERS

33

Pen- nant	Lodge	Name	Address	City	Pen- nant	Lodge	Name	Address	City
6008	4	Gallagher, John	1493 Marlowe Ave.	Lakewood, O.	3000	6	Griffith, Thos. R.	816 W. Greenfield Ave., Apt. 202	Milwaukee 4, Wis.
3051	1	Gardner, Wm. F.	278 Euclid Ave.	Kenmore 23, N. Y.	2122	6	Grim, Otto C.	2535 So. Superior St.	Milwaukee, Wis.
5081	4	Gareau, Joseph N.	3606 W. 127th St.	Cleveland, O.	9295	1	Gronwall, H. Peter	6 Elmwood Pk.	Tonawanda, N. Y.
9278	4	Garner, Josiah J.	9211 Elmhurst, Rt. 2	Plymouth, Mich.	3278	1	Gronwall, Oscar	486 Main St.	Tonawanda, N. Y.
9483	15	Garrett, W. F.	172 Russell Ave.	St. Catharines, Lincoln Co. Ont.	9028	1	Gronwall, Oscar H.	486 Main St.	Tonawanda, N. Y.
3481	4	Garry, Sidney E.	2320 Fulton Ave.	Davenport, Iowa	2950	7	Gross, Edw. W.	21066 Ardmore Park Dr., St. Clair Shores, Mich.	
9551	12	Gault, Leroy E.		Wrenshall, Minn.	5057	9	Guddeck, Albert	2039 Summit St.	Toledo, O.
9467	7	Gauthier, Donald J.	530 N. Third St.	L'Anse, Mich.	9253	15	Gulbranson, O.	443 Hurontario	Collingwood, Ont.
5013	4	Gawn, Hugh L.	R. F. D. 2	Lorain, O.	9011	12	Gulder, Guido	2224 Vermilion Rd.	Duluth 3, Minn.
9501	9	Gay, Lee Roy A.	Galenla St., Box 28	Toledo, Ohio	8004	17	Gustafson, Carl A.	c/o Mrs. Lincoln Dahquist	Beverly Lane, Eddington, Pa.
2964	3	Gentz, Otto A.	7518 Clyde Ave.	Chicago, Ill.	9167	12	Gustafson, Ernest R.	915 Woodland Ave.	Duluth, Minn.
9109	2	Gerkowski, Frank J.	1018-16th St.	Port Huron, Mich.	1204	4	Hahn, Chas. P.	331 Oberlin Ave.	Lorain, O.
9242	15	Gibson, C.	Box 1087, 610 Elm St.	Port Colborne, Ont.	9535	4	Hallahan, James B.	12503 Astor Ave.	Cleveland, O.
9466	15	Gibson, John James		Fordwich, Ont.	5009	12	Hallberg, Irving L.	4414 Robison St.	Duluth, Minn.
9415	2	Gilbert, Arthur M.	434 Orchard St.	Algonac, Mich.	9211	15	Halstead, Jack	246 Alexandria St.	Port Colborne, Ont.
9071	10	Gilbert, L. Anthony	521 King St.	Ogdensburg, N. Y.	3422	4	Hampton, Wm. D.	R. R. No. 5	Medina, O.
9322	15	Gilbert, Marvin D.	60 4th St.	Midland, Ont.	3692	4	Hansen, Alfred	1130 Leavitt Rd.	Lorain, O.
3539	1	Gillies, Alexander	380 Raycraft Blvd.	Snyder, N. Y.	3589	9	Hansen, Harold P.	1502 Crestwood Rd.	Toledo 12, O.
9418	1	Gillies, Murray	157 Stratford Rd.	Buffalo, N. Y.	9353	6	Hansen, Harvey N.	4021 N. Montreal St.	Milwaukee 16, Wis.
1595	4	Girardin, W. L.	1188 Churchill Rd.	Lyndhurst, O.	3435	4	Hanson, Karl O.	1206 Lakeland Ave.	Lakewood, O.
4085	9	Gnewuch, Chas.	3043 No. Farwell Ave.,	Milwaukee 11, Wis.	5033	4	Hanssen, Roald M.	11517 Headley Ave.	Cleveland, O.
3304	1	Gonyaw, Chas.	327 Broad St.	Tonawanda, N. Y.	9078	4	Harbottle, Thos. F.	309 Murray Rd.	West Palm Beach, Fla.
9273	1	Gonyaw, Louis	327 Broad St.	Tonawanda, N. Y.	9470	15	Hare, John W.	1398 A. Yonge St.	Toronto, Ont.
3655	1	Goodberry, Claud	565 Guder St.	Buffalo 15, N. Y.	9381	4	Harmon, Frank B.	1417 Stanton Ave.	Whiting, Ind.
5026	1	Goodrow, Adrien	377 Okell St.	Buffalo, N. Y.	9050	4	Harmon, Frank J.	3228 Berea Rd.	Cleveland, O.
9520	7	Goransson, Gustav	904 Ashland Ave.	Detroit, Mich.	9221	15	Harpell, Frank D.	366 Midland Ave.	Midland, Ont.
9260	15	Gordon, John Harold	Box 165	Alvinston, Ont.	3670	9	Harris, Floyd H.	652 Woodsdale Ave.	Toledo, O.
8079	12	Gordon, Martin	2530 Jefferson St.	Duluth, Minn.	2105	4	Hartman, A. H.	29301 L. S. Blvd.	Willoughby, O.
9187	8	Goosman, Richard L.	640 West Willis, Apt. 425	Detroit, Mich.	9528	4	Hartman, Robert A.	240 East 266 St.	Euclid 23, O.
3629	6	Goudy, Lawrence W.	1973 S. 58th St. W.	West Allis 14, Wis.	4009	4	Haswell, Mark H.	621 North 3rd St.	Rogers City, Mich.
9016	2	Goulait, John	618 Royal St.	St. Clair, Mich.	3515	3	Hatch, Emery B.	Sahuaro Lake Ranch	Mesa, Ariz.
9362	2	Goulette, Van L.	2919 Military St.	Port Huron, Mich.	9129	1	Hathy, Steven F.	1026 East 17th St.	Ashtabula, O.
9548	12	Gowan, Richard W.	633 E. 4th Street	Duluth, Minn.	2470	3	Haugeland, L.	Box 333	Fox River Grove, Ill.
9511	15	Graham, Clarence A.	834 Welland St. So.	Thorond, Ont.	9287	15	Hawman, E. C.	R. R. No. 2	Aurora, Ont.
9395	15	Graham, Roderick	834 15th St. E.	Owen Sound, Ont.	9281	1	Hay, Carlton	181 Main St.	Tonawanda, N. Y.
6058	1	Graham, William	131 Dartmouth Ave.	Buffalo, N. Y.	9475	1	Hayes, William J.	80 Bouck St.	Tonawanda, N. Y.
4060	17	Grant, Richard A.	P. O. Box No. 433	Conneaut, O.	9277	4	Haynes, Russell A.	14901 Lorain Ave.	Cleveland 11, Ohio
8074	3	Green, Andrew J.	161 N. Central Ave.	Chicago 44, Ill.	3138	7	Hayward, R. E.	17320 Melrose Ave.	Detroit 35, Mich.
9334	1	Green, Earl J.	415 Knowlton Ave.	Kenmore 23, N. Y.					
9006	1	Greenwood, Mark J.	R. F. D. No. 1	Derby, N. Y.					
9439	9	Gregg, Harry C.	1004 Cuthbert Dr.	Toledo, O.					



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## LIST OF ACTIVE MEMBERS

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Pen- nant	Lodge	Name	Address	City	Pen- nant	Lodge	Name	Address	City
6045	17	Heagerty, Ralph E.	521 Main St.	Conneaut, O.	6027	4	Jerome, Frank J.	1550 Larchmont Ave.	Lakewood, O.
3280	1	Healy, P. J.	71 Mona Dr.	Eggertsville 21, N. Y.	2149	2	Jerome, W. R.	214 Thornapple St.	St. Clair, Mich.
1728	1	Heffernan, Jas.	150 Morgan St.	Tonawanda, N. Y.	9543	15	Jessome, Jerome	Mill Creek	Cape Breton, N. S.
1761	1	Heffernan, Thos. N.	64 Cunard St.	Buffalo, N. Y.	6019	6	Jilbert, Chas. V.	5650 A. West Roosevelt Dr.	Milwaukee 10, Wis.
4074	6	Henderson, Allen G.		Bark River, Mich.	9367	4	Johns, Donald O.	3847 W. 44th St.	Cleveland, 9, O.
3693	4	Hendrickson, A. M.	315 E. 197th St.	No. Euclid, O.	9063	7	Johns, Malcolm A.	13532 Mansfield St.	Detroit, Mich.
9500	12	Henze, Roy O.	Lakeview Apts.	Two Harbors, Minn.	3558	3	Johansen, John	3045 W. Fullerton Ave.	Chicago 47, Ill.
1497	1	Herbert, Jas. G.	R. D. No. 1, Rapids Rd.	Clarence Center, N. Y.	3092	3	Johnsen, J. M.	1619 N. Spaulding Ave.	Chicago, Ill.
4079	4	Hereford, James L.	R. F. D. No. 2	Bath, N. Y.	3019	7	Johnson, A. C.	15053 Artesian Ave.	Detroit 23, Mich.
2447	4	Hibbard, Grant C.	913 South K Street	Lake Worth, Fla.	4038	4	Johnson, Andreas	402 Oakland Blvd., Round Hill Park,	Roanoke, Va.
9398	12	Hill, Eino I.	Box 364a, R. F. D. 132	Duluth 3, Minn.	9446	2	Johnson, Bradley V.	R. D. No. 4 Johnson Rd.	Erje, Pa.
9465	15	Hill, W. H.	Hurontario St.	Collingwood, Ont.	3569	4	Johnson, Harold A.	17820 Cannon St.	Lakewood, O.
3571	4	Himmelroos, W. E.	9220 Torrence Ave.	Cleveland 9, Ohio	9462	2	Johnson, James W.	1105 Glenwood Ave.	Port Huron, Mich.
2969	4	Hinslea, Lee C.	1970 Union Com. Bldg.	Cleveland, O.	3552	4	Johnson, John	2142 Mars Ave.	Lakewood 7, Ohio
3052	6	Hoel, A. F.	238 Rieg Ave.	Conneaut, O.	9454	12	Johnson, Stanley R.	978 88th Ave. W.	Duluth, Minn.
3225	4	Hoff, John Jr.	25 South St.	New York, N. Y.	9438	9	Johnston, Harvey O.	617 Ash St.	Toledo, O.
2999	7	Hoglund, R. C.	2929 Mt. Claire Ave.	Detroit, Mich.	9261	15	Jones, Harold	268 Duke St.	St. Johns, New Brunswick
6081	17	Holmes, Carl E.	Haywood Beach R.D. No. 1	Ashtabula, O.	9004	4	Jones, Lester H.	1970 W. 28th St.	Cleveland, O.
9464	15	Hookey, Otto A.	4 Fuller Ave.	Toronto, Ont.	9480	4	Jones, Thomas C.	P. O. Box 1073, Sta. A.	Cleveland 2, O.
9320	15	Hookey, Wilfred	1599 Bloor St., West	Toronto, Ont.	1532	6	Jones, W. C.	1073 Wilbert Rd.	Lakewood, O.
9165	4	Hope, Cornelius H.	10608 Fortune St.	Cleveland, O.	9003	12	Jost, James F.	515 N. 34th Ave. E.	Duluth 5, Minn.
1547	7	Hosner, V. L.	2314 So. Peninsula Drive	Daytona Beach, Fla.	1797	7	Judson, H. W.	15049 Washburn Ave.	Detroit, Mich.
9310	15	Houtman, T. J.		Cooksville P. O., Ont.	9434	17	Kallio, Lauri	215 High St.	Conneaut, O.
1878	6	Hoxie, A. K.	Route 3, Box 100	Ludington, Mich.	9403	12	Kamm, Rudolph W.	216 Prentice Ave.	Ashland, Wis.
5080	11	Huber, Mark	71 Floral Park	N. Y.	6072	1	Kane, Gerald L.	420 Skillen St.	Buffalo, N. Y.
4052	17	Humphrey, Wm. C.	Knollwood Ave.	Ashtabula, O.	9030	12	Kaner, Isadore	2622 Hughett Ave.	Superior, Wis.
9205	12	Husby, Frederick M.	914½ E. 10th St.	Duluth, Minn.	9472	12	Kapets, Phillip E.	727 Sunset Rd.	Ironwood, Mich.
2082	1	Hutchins, H. J.	21 Moore St.	Buffalo, N. Y.	9045	17	Kassick, Leonard K.	714 Main St.	Conneaut, O.
3403	4	Hutchinson, J. T.	13823 Edgewater Drive	Lakewood, O.	1690	6	Kearns, C. J.	2864 N. 83rd St.	Milwaukee, Wis.
2946	6	Jackson, E. G.	822 Dodge St.	Kewaunee, Wis.	9396	4	Keenen, Roman T.	1197 Webb Rd.	Lakewood, 7, O.
9307	12	Jacobs, James C.	3723 Rendle Ave.	Duluth 6, Minn.	9538	2	Keil, Walter F.	514 Sixteenth St.	Port Huron, Mich.
3310	4	Jacobsen, Harold	316 Lincoln Ave.	Erie, Penna.	9366	12	Kelderhouse, Leon T.		Maple City, Mich.
9122	4	Jacobson, Edgar M.	16414 Madison Ave.	Lakewood, O.	5073	12	Keller, Oakley H.	5211 Otsego St.	Duluth, Minn.
9408	12	Jacovetti, Albert J.	5821 Ogden Ave.	Superior, Wis.	6049	17	Kelley, Peter	541 Liberty St.	Conneaut, O.
5047	7	Jagenow, William L.	6191 Heneford	Detroit 24, Mich.	3458	4	Kelly, Wilfred K.	1533 Cohasset Ave.	Lakewood 7, Ohio
9077	12	Jappinen, Walter E.	207 South Ave.	Two Harbors, Minn.	8095	9	Kelsey, Donald W.	5129 Brandon Rd.	Toledo, O.
9385	12	Jensen, Gordon V.	1623 E. Fifth St.	Ashland, Wis.	9191	4	Kemp, Gilbert	2108-26th Ave.	Oakland, California
4055	12	Jensen, Jorgen A.	1801 E. 9th St.	Duluth, Minn.	9182	1	Kemp, Henry A.	25 Kenova St.	Buffalo, N. Y.
					9108	2	Kemp, Howard L.	2724 Walnut St.	Port Huron, Mich.

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## LIST OF ACTIVE MEMBERS

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Pen- nant	Lodge	Name	Address	City	Pen- nant	Lodge	Name	Address	City
3602	4	Kenyon, J. Otis	7909 Superior Ave.	Cleveland, O.	3662	1	Larsen, Alfred O.	42 LaSalle Ave.	Kenmore, N. Y.
9539	2	Kersul, Robert B.	809 Lincoln Ave.	Port Huron, Mich.	6004	4	Larsen, C. F.	4288 Brookside Blvd.	Cleveland 11, O.
3548	4	Kerver, Wm. F.	1744 Lakeview Ave.	Rocky River 16, O.	3261	12	Larsen, James	2335 John Ave.	Superior, Wis.
9437	9	Ketola, Robert O.	4610 Vermass Ave.	Toledo 12, Ohio	9125	4	Larsen, Newman C.	14434 Delaware Ave.	Lakewood 7, O.
3467	4	Kidd, Spencer J.	3605 Rocky River Dr.	Cleveland 11, O.	9488	15	Latimer, C.	281 Beau Ave.	Toronto, Ont., Can.
3048	2	Kiefer, E. W.	2614 Military St.	Port Huron, Mich.	6015	8	Lavelly, John N.	569 S. Main St.	Marine City, Mich.
9249	1	King, H. C.	2206 Terminal Tower	Cleveland 13, O.	9302	2	La Vere, Clifford C.	513 N. 3rd St.	St. Clair, Mich.
9286	4	Kirby, Robert F.	570 Huntmere Dr.	Bay Village, Ohio	9138	4	Lawless, Donald C.	115 Ferry St.	Vermilion, O.
9419	9	Kirk, Waldo C.	2020 Blanche Drive	Toledo, O.	3665	2	Leach, H. N.	710 N. 3rd Street	St. Clair, Mich.
9228	15	Kitchen, D. M.	139 Rose Ave.	Toronto, Ont.	6014	2	Leach, Robert B.	606 N. 3rd St.	St. Clair, Mich.
5028	4	Kittinger, Lewis W.	6309 Ellen Ave.	Cleveland, O.	3389	1	Leard, Wm. A.	RFD No. 3	Hamburg, N. Y.
9008	3	Kleve, Harold E.	5928 Thorndale Ave.	Chicago 30, Ill.	3642	3	Lehne, G. A.	4845 Pensacola Ave.	Chicago, Ill.
6076	12	Knight, Elmer T.	3 S. 66th Ave. W.	Duluth, Minn.	3362	6	Lehtoma, Harvey A.	704 Cady St.	Watertown, Wis.
9517	4	Knudsen, Carl E.	2893 East Blvd.	Cleveland, Ohio	9371	15	Lemcke, Wilfred J.	R. R. No. 6	Warton, Ont.
8000	4	Knudsen, Eilif	4061 West 161st St.	Cleveland 11, O.	2464	4	LeRoy, David M.	615 South L St.	Lake Worth, Fla.
9323	12	Koivisto, Toivo E.	1217 W.-9th Street	Ashtabula, Ohio	9502	9	LeRoy, Kenneth K.	2617 118 St.	Toledo, Ohio
3419	4	Konkel, Jos. E.	1292 Elmwood Rd.	Rocky River, O.	5066	12	LeRoy, Thomas P.	719 Third Ave.	Two Harbors, Minn.
9373	15	Kokko, Benj. E.	c/o 18 Omee Ave.	Humberstone, Ont.	2300	4	Levis, George	616 Elmwood Rd.	Rocky River, O.
6069	17	Koskela, J. Erven	6710 Franklin Ave.	Cleveland 2, O.	9451	1	Lewandowski, S.	1001 Exchange St.	Buffalo, N. Y.
9327	4	Koski, Vernie J.	310 7th St.	Fairport Harbor, O.	9202	3	Lewin, Jack E.	9216 Commercial Ave.	Chicago, Ill.
9433	1	Krasowski, Henry	45 Eden Ave.	Buffalo, N. Y.				c/o L. C. Association	
9036	2	Krause, Anthony R.	1038 Oak St.	Port Huron, Mich.	6009	4	Lewis, David P.	178 Baker St.	Berea, O.
4067	4	Kresin, Henry F.	1830 18th St.	Wyandotte, Mich.	9312	15	Lidstone, J. W.	Victoria Harbor, Simcoe County, Ont.	
3380	6	Kristiansen, A.	4032 Robinson St.	Duluth, Minn.	9314	15	Lillie, James	800 Dovercourt Rd.	Toronto, Ont.
9479	4	Krohn, George P.	7206 Melber Ave.	Cleveland 9, O.	8031	4	Lindsay, Ferl N.	403 W. Liberty St.	Vermilion, O.
3034	6	Kuhn, H. C.	1008 Carr St.	Watertown, Wis.	3386	1	Loch, Jas. T.	152 Stratford Ave.	Buffalo, N. Y.
9506	12	Kurtz, Arthur E.	12222 Lorain Ave.	Cleveland 11, Ohio	8071	1	Loughlin, Robert J.	2 Alma Ave.	Buffalo, N. Y.
					9499	10	Lowery, Donald E.	316 Morris St.	Ogdensburg, N. Y.
9399	12	LaBoy, Edward J.	3715 East 3rd. St.	Superior, Wis.	8081	17	Lowrie, Kenneth W.	109 Doan Ave.	Painesville, O.
9170	1	LaDuca, Chas. H.	81 Campus Drive, Apt. No. 2	Snyder 21, N. Y.	9196	7	Lozon, John L.	15409 Manor St.	Detroit, Mich.
3392	1	LaDuca, Louis G.	81 Campus Drive, Apt. No. 1	Snyder 21, N. Y.	9207	12	Luckenbill, Angus B.	3706 E. First St.	Superior, Wis.
9423	7	LaForest, Bernard	506 W. Michigan	Boyne City, Mich.	9452	12	Luckenbill, George	3905 N. Bernard St.	Chicago, Ill.
9180	4	Lampe, John E.	226 Brandon Ave.	Elyria, O.	9532	17	MacDermid, D. A.	1706 West 8 St.	Ashtabula, O.
9522	9	Lange, Eckhart W.	910 Hancock St.	Sandusky, Ohio	9064	1	MacDonald, Angus	147 Hamilton Blvd.	Kenmore, N. Y.
9404	12	Lange, Gerald	516 W. Orange St.	Duluth, Minn.	6089	4	MacDonald, Donald	RFD No. 2, Piper Road	Alpena, Mich.
8039	7	Langridge, Donald	12638 Lincoln Ave.	Highland Pk, Mich.	9519	1	MacDonald, W., Jr.	32 Woodward Ave.	Kenmore, N. Y.
9010	12	Lappi, Bernhart A.	304 Wellington Rd.	Buffalo, N. Y.	9376	15	MacIntyre, Fred'k V.	c/o Quebec & Ontario Transp.	
9143	12	Lappi, Horace I.	214 W. 3rd St.	Duluth, Minn.				680 Sherbrooke St., W.,	Montreal, P. Q.
6064	6	Larcombe, Cecil J.	R. F. D. No. 3	Watertown, N. Y.	9377	15	MacIntyre, J. A.	c/o Canadian Oil Co.	S. Corunna, Ont.
9516	4	Larcombe, V. F.	2439 Overlook Rd.	Cleveland Hts., O.	9542	15	MacKinnon, A. A.	307-3rd St.	Midland, Ontario
					9154	4	MacLean, Don A.	Butternut Ridge, RFD No. 3	Elyria, O.

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Pennant	Lodge	Name	Address	City	Pennant	Lodge	Name	Address	City
9358	9	MacLellan, Donald	3118 Glenn Ave.	Trilby, Ohio	6053	17	McKinzie, Thomas I.	945 Main St.	Conneaut, O.
5044	1	MacLeod, M. J.	835 Auburn Ave.	Buffalo 9, N. Y.	2096	4	McLachlan, W. H.	1844 Adams St.	Hollywood, Fla.
5012	1	Maddigan, John B.	52 Hubbell Ave.	Buffalo 20, N. Y.	5093	12	McLean, A. C.	2827 Piedmont Ave.	Duluth 2, Minn.
5068	9	Magill, Edward	3209 Elmwood Ave.	Erie, Pa.	9487	15	McLean, A. G.	299 Napier St.	Collingwood, Ont., Can.
3651	9	Magnuson, R. M.	820 Hartt Rd.	Erie, Pa.	6080	17	McLean, Joseph	1816 W. 4th St.	Ashtabula, O.
3352	1	Maitland, W. Ross	130 W. Winspear Ave.	Buffalo, N. Y.	6074	1	McLean, P. S.	1995 Delaware Ave., Apt. 3-C	Buffalo, N.Y.
9335	12	Maki, Frederick E.	3330 S. 98th St.	West Allis 14, Wis.	3656	4	McLennan, Angus	245 Overlook Park Drive	Cleveland, O.
3027	4	Male, E. K.	1139 4th St.	Lorain, O.	9383	12	McMahon, Jos. J.	918 W. Edwards	Houghton, Mich.
3634	6	Maleck, John S.	Box 237	Maitland, Florida	2142	4	McNaughton, Roy	% 1st Nat. Bank	Soo, Mich.
9009	3	Malloch, Ervin L.	1551 W. 90th St.	Chicago, Ill.	3336	9	McPherson, R. R.	213 Ridge St.	Sault Ste. Marie, Mich.
5064	3	Manley, John J.	3844 West Cornelia Ave.	Chicago 40, Ill.	9339	4	McPhillips, Richard	1827 Hemlock Dr.	Monroe, Mich.
3162	7	Mantel, L. C.	967 Huron River Drive	Belleville, Mich.	3598	4	McQuinn, C. H.	5282 Bishop Rd.	Detroit, Mich.
3528	2	Manuel, Don E.	P. O. Box 71	Port Huron, Mich.	3266	7	McRae, Donald	9408 Mendota Ave.	Detroit, Mich.
9416	2	Marsden, R. E.	1301 Market St.	Algonac, Mich.	3590	1	McRitchie, John D.	690 LaSalle Ave.	Buffalo, N. Y.
9172	17	Masalin, John W.	1347 Thayer Ave.	Ashtabula, O.	8076	9	McSorley, Ernest N.	1117 Secor Rd.	Toledo 7, O.
1790	12	Massey, C. A.		Alexander Bay, N. Y.	5038	4	McSweeney, Wm. J.	1545 Robinwood Ave.	Lakewood 7, O.
9241	15	Mattice, J. L.	310 Wellington St.	N. Hamilton, Ont.	6046	17	Means, Gordon H.	Box 124	Kingsville, O.
9387	4	Maychrovicz, P. J.	342 Prospect Rd.	Ashtabula, O.	2124	6	Mellon, Geurinis	246 Dartmouth Ave.	Buffalo, N. Y.
9412	4	McArthur, Earl C.	3889 W. 33rd St.	Cleveland, O.	7009	4	Mernone, Milton S.	5325 Lorain Ave.	Cleveland, O.
9224	15	McBeth, Hicks Pray	522 Davis St.	Sarnia, Ont.	3455	4	Messenger, Lewis C.	R. F. D. No. 1 Messenger Rd.	Burton, Ohio
9164	4	McCarthy, John H.	2167 E. Erie Ave.	Lorain, O.	3007	4	Meyers, Chas. F.	1084 Walnut Blvd.	Ashtabula, O.
9254	15	McCartney, L. F.	Colbourne St.	Goderich, Ont.	8080	12	Michler, Willis C.	2233 W. 12th St.	Duluth, Minn.
9288	15	McCauley, R. J.	468 Wellington St.	Toronto, Ont.	9176	2	Millar, I. Ray	2838 Walnut St.	Port Huron, Mich.
8018	1	McCorkell, Wm. C.	8 Kenville Rd., Apt. D	Buffalo 15, N. Y.	6057	1	Miller, Harmon E.	37 Coupland Pl.	Buffalo, N. Y.
9073	1	McCormick, H. K.	307 N. Keisel St.	Bay City, Mich.	4004	9	Miller, Manley D.	2414 Tremainsville Rd.	Toledo 12, O.
9316	15	McCutcheon, E.W.G.		Lions Head, Ont.	9218	15	Miller, Norman H.		Corunna, Ont.
3646	4	McDermid, Dan	14411 Hollywood Ave.	Cleveland, O.	9370	15	Mitchell, R. Jr.		Port McNicoll, Ont.
3640	4	McDermid, John	14620 Caldwell Ave.	Cleveland, O.	5023	9	Monroe, Frank E.	1585 Crestwood Rd.	Toledo 12, O.
9341	10	McDonald, John A.	1211 Green St.	Ogdensburg, N. Y.	9515	12	Montgomery, G. A.		Kalkaska, Mich.
5017	7	McDonald, Wm.	1034 Waterman St.	Detroit, Mich.	1817	1	Montgomery, J. A.		Lake Jem, Fla.
3604	4	McDonald, Wm. R.	1508 Rockefeller Bldg.	Cleveland, 13, O.	1675	4	Mooney, W. T.	1863 Beersford Rd.	Cleveland, O.
3155	1	McDonald, W. S.	32 Woodward Ave.	Kenmore 23, N. Y.	9405	3	Moore, Wm. J.	1705 E. 67th St.	Chicago 49, Ill.
9119	4	McGarry, Edward J.	1110 North K. St.	Lake Worth, Fla.	9509	15	Morrison, George		Tara, Ont.
9075	4	McGarry, Ray	10321 Baltic Rd.	Cleveland, O.	9431	1	Morrison, John W.	1599 Hertel Ave.	Buffalo, N. Y.
9092	9	McGaw, Albert A.	2916 Jermain Dr.	Toledo 6, O.	1964	2	Morse, A. R.	1067 S. 9th St.	St. Clair, Mich.
9235	15	McGee, Ainsley E.		Wiaraton, Ont.	9292	4	Mortimer, Ross E.	5143 Edenhurst Rd.	Lyndhurst 24, Ohio
9338	1	McGee, Howard W.	639 Niagara Falls Blvd.	Buffalo, N. Y.	2296	4	Morton, A. C.	3700 Traver Rd.	Shaker Heights, O.
5046	1	McGinness, Percy	423 Oakwood Ave.	East Aurora, N. Y.	4092	7	Morton, William	1911 Clairmount	Detroit, Mich.
9364	12	McGowan, Alvin S.	1308 Tower Ave., Apt. B.	Superior, Wis.	9289	15	Montgomery, J. R.	48 Eastbourne Cres.	Mimico, Ont.
9313	15	McGregor, Harvey	523 14th St. W.	Owen Sound, Ont.	9141	12	Munro, James C.	2128 E. 4th St.	Duluth, Minn.
9291	15	McKeen, R. P.	Hanover, Grey County	Ont.	3675	9	Murphy, Harold P.	2035 Summit St.	Toledo, O.
2382	1	McKenzie, Alex	327 Stillwell Ave. N. E.,	Kenmore 23, N. Y.					



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## LIST OF ACTIVE MEMBERS

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Pen- nant	Lodge	Name	Address	City	Pen- nant	Lodge	Name	Address	City
9035	1	Murphy, Henry J.	22 Victory Ave.	Lackawanna, N. Y.	3157	4	Olsen, Jacob	1206 Lakeland Ave.	Lakewood, O.
8068	1	Murray, Elmer F. Jr.	437 N. Oak St.	Buffalo, N. Y.	5049	4	Olsen, Johannes	1383 Elbur Ave., Apt. 24	Lakewood 7, O.
9420	4	Murray, Henry M.	20029 Norwood Ave.	Detroit 34, Mich.	8092	12	Olsen, Leonard V.	4524 Tioga St.	Duluth, Minn.
3059	4	Murray, John C.	10705 Clifton Blvd.	Cleveland 2, O.	1720	17	Olsen, Oscar	1827 Walnut St.	Ashtabula, O.
5059	3	Murrin, John E.	9359 So. Vanderpool Ave.,	So. Chicago, Ill.	8048	12	Olsen, Ralph	917 N. Central Ave.	Duluth 7, Minn.
3222	1	Nash, C. E., Jr.	216 Berkshire Ave.	Buffalo, N. Y.	9272	12	Olsen, Thomas R.	2309 W. 6th St.	Duluth, Minn.
9523	9	Navarre, John L.	602 Eleanor Ave.	Toledo, Ohio	3462	4	Olson, Gustav, J.	1371 Elbur Ave.	Lakewood 7, Ohio
3644	9	Nauts, Donald	445 S. 6th St.	Rogers City, Mich.	9409	12	Olson, Gordon L.	1432 East 1st. St.	Duluth, Minn.
9450	2	Nelson, Gordon E.	1738 Conn. St.	Marysville, Mich.	2880	12	O'Meara, J. H.	993 88th Ave. West	Duluth, Minn.
2478	2	Nelson, H. J.	1108 Lapeer Ave.	Port Huron, Mich.	5088	2	Osier, Vincent J.	135 No. Water St.	Marine City, Mich.
9529	4	Nelson, Norman T.	520 Kenilworth Rd.	Bay Village, O.	9348	1	Ostrander, Richard L.	489 A. Allenhurst	Buffalo 14, N. Y.
3554	3	Nelson, Seldon, M.	6411 So. Kenwood Ave.	Chicago, Ill.	9168	1	Packer, John T.	849 Busti Ave.	Buffalo, N. Y.
3574	4	Nelson, Thor	1269 Bonnie-View Ave.	Lakewood, O.	9427	15	Pain, L. B.	1422 Jeanne D'Arc St.	Montreal, Quebec
2092	4	Nelssen, Severn	2400 Winfield Ave.	Rocky River, O.	2052	6	Palni, Edw.	2658 N. 70th St.	Wauwatosa 10, Wis.
9160	3	Nemeth, Harry P.	6732 W. Rascher	Chicago 31, Ill.	1896	7	Palmer, A. J.	2481 Townsend St.	Detroit, Mich.
9283	12	Nichol, Chester H.	1417 9th Ave. So.	Escanaba, Mich.	9026	4	Parry, Wendall	310 Park St.	Huron, O.
3040	6	Nielsen, A. H.	2048 S. 69th St.	West Allis, Wis.	9061	6	Parsons, David C.	134 Leffert St.	Berlin, Wis.
9135	4	Nielsen, Morris J.	403 Courtland St.	Fairport, O.	1233	7	Parsons, D. R.	15282 Garfield Ave.	Allen Park, Mich.
3456	4	Nielson, John	1204 3rd St.	Sandusky, O.	9046	12	Patnode, Clifford	605 Grand Ave.	Superior, Wis.
3650	9	Nissen, Charles U.	2760 Inwood Dr.	Toledo, O.	9428	15	Patterson, T. S.	242 Strathmore Blvd.	Toronto, Ont.
1865	4	Noble, John	2577 Hampton Rd.	Rocky River 16, O.	9417	1	Paul, Frank Jr.	1413 Obispa Ave.	Coral Gables, Florida
9146	8	Noga, Rudolph	310 Robertson St.	Marine City, Mich.	4007	4	Paver, Chas. J.		Belleville, N. Y.
4014	1	Norman, Hans E.	1718 Revere Dr.	Derby, N. Y.	5096	4	Paver, Wm. H.		Belleville, N. Y.
6099	17	Norton, Clay B.	247 Olin Ave.	North Girard, Pa.	9365	12	Pearson, Leonard O.	5125 Tioga St.	Duluth, Minn.
9497	1	Nowageski, Leo F.	1023 Merchant St.	Alpena, Mich.	3421	6	Pederson, Arnold G.	406 Park Ave.	Pewaukee, Wis.
1818	3	Oakley, James	218 E. 80th St.	Chicago, Ill.	9252	15	Penny, Malcolm W.	English Harbor	Trinity Bay, Nfld.
5052	6	O'Boyle, Geo. A.	443 North 5th St.	Sturgeon Bay, Wis.	4008	2	Penzenhagen, A. C.		Goodfells, Mich.
9453	12	O'Brien, Robert W.	803 East 7th St.	Superior, Wis.	6028	10	Peo, Eugene O.	414 Seymore St.	Ogdensburg, N. Y.
9435	4	O'Hara, Harry J.	11501 College Ave.	Detroit, Mich.	2147	7	Perrault, Albert	58 E. Cicotte St.	River Rouge 18, Mich.
9210	15	Ogg, W. E.	939-7th Ave.	E. Owen Sound, Ont.	8094	9	Perry, Albert C.	4819-296th St.	Toledo, O.
9100	9	Ohlemacher, Irving	RFD No. 1	Huron, Ohio	9280	1	Person, Harold A.	44 Fuller Street	Tonawanda, N. Y.
5072	9	Okland, John S.	657 Sylvendate Ave.	Toledo, O.	1935	7	Peterson, A. M.	R. F. D.	Pawlet, Vt.
9282	1	Oldman, Elmer W.	Northrup Rd.	Spring Brook, N. Y.	8090	1	Peterson, Herbert	114 Johnson St.	Buffalo, N. Y.
9248	1	Oldman, Robert W.	c/o Oldman Boiler Works 32 Illinois St.	Buffalo, N. Y.	2946	6	Peterson, J. A.	1600½ Carney Blvd.	Marinette, Wis.
9349	4	O'Leary, Edward D.	22555 Westwood Rd.	Fairview Park, O.	9193	12	Peterson, Jonas E.	1001 N. 9th Ave.	Duluth, Minn.
9325	12	Olenczuk, Anthony	312 S. 56th Ave., West	Duluth, Minn.	1392	1	Peterson, M. S.	135 Irving Terrace	Kenmore 23, N. Y.
7000	9	Oliver, John B.	1404 Crestwood Rd.	Toledo, O.	1329	4	Peterson, P. A.	3168 Kensington Rd.,	Cleveland Hts. 18, O.
4026	1	Olsen, Ben	27 Cayuga St.	Buffalo 11, N. Y.	3417	1	Peterson, Peter J.	11303 Lauder Ave.	Detroit 27, Mich.
4095	7	Olsen, Bernard	2461 Grindley Pk.	Dearborn, Mich.	8060	4	Petrie, Grant W.	1446 Wayne Ave.	Lakewood 7, Ohio
					9534	6	Petrovski, Robert F.	2023 N. 67 St.	Milwaukee, Wis.
					2188	1	Phillips, J. J.	16 Elmwood Park	Tonawanda, N. Y.
					5021	2	Phillips, Robert A.	2450 40th St.	Port Huron, Mich.

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Pennant	Lodge	Name	Address	City
9315	4	Phillips, Wm. F.	2106 McKinley Ave.	Bay City, Mich.
9120	1	Picard, Leo. W.	1107 So. State St.	St. Joseph, Mich.
2133	8	Piotter, C. L.	225 2nd St.	Marine City, Mich.
9460	12	Plain, Harvey L.	3317 N. 19th St.	Superior, Wis.
8044	9	Pocotte, Arthur M.	3197 Daleford Dr.	Toledo 14, O.
4050	4	Powell, Dewey	403 N. Lind St.	Deshler, O.
6050	17	Powell, Frank	333 Niagara Falls Blvd.	Buffalo 14, N. Y.
1738	10	Powers, Jno. J.	400 Barre Street	Ogdensburg, N. Y.
9447	2	Presley, John C.	1039 Minnie St.	Port Huron, Mich.
1528	4	Pringle, R. C.	c/o Mrs. R. Kitchen, 1234 Lakepointe, Grouse Pt. Park 30, Mich.	
3592	9	Pringle, Wayne	4762-296th St.	Toledo, O.
9473	4	Prosak, Frank S.	1939 Long Ave.	Lorain, O.
9236	7	Pulcer, Peter	19116 Masonic Blvd.	Fraser, Mich.
3351	2	Purdy, E. D.	4370 Gratiot Ave.	Port Huron, Mich.
9390	12	Pust, Ivar	2436 Nanticoke St.	Duluth, Minn.
4048	4	Radcliff, H. L.	Edmondson & Delray Av.,	Baltimore, Md.
8006	2	Radike, R. F.	P. O. Box 834	New Port Richey, Fla.
3568	6	Radtke, T. G.	1606 W. State St.	Milwaukee 3, Wis.
9043	7	Ramage, Meldrin D.	Gen. Delivery	Mackinac City, Mich.
6005	4	Ramsay, William	Summit Ave	
1590	2	Randall, Frank	3914 So. Military St.	Northfield, O., Macedonia P. O. Port Huron, Mich.
9394	12	Rapp, George R.	527 N. 43rd Ave. W.	Duluth, Minn.
9048	7	Rawson, Edwin C.	625 W. Walnut	Painesville, O.
1434	7	Recor, Geo. F.	3017 Sheridan Ave.	Detroit, Mich.
9227	15	Redfearn, H. G.	54 Lake Ave.	Stoney Creek, Ont.
9378	15	Redpath, Calvin J.	40 Parkview Rd.	St. Catharines, Ont.
9199	1	Reed, Richard A.	30 Point Dr., West	Dunkirk, N. Y.
9533	10	Regan, Robert J.	823 State St.	Ogdensburg, N. Y.
3517	4	Rehak, Anthony	422 Fifth St.	Fairport Harbor, O.
6011	4	Reiber, George W.	108 E. South St.	Vermilion, O.
1711	4	Reid, Wm. C.	13304 Hazelwood Ave.	Lakewood 7, Ohio
9150	17	Rendrick, Edw. M.	714 Lake Ave.	Ashtabula, O.
6055	17	Rendrick, John R.	1825 W. 8th St.	Ashtabula, O.
9352	2	Reynolds, Leo J.	4432 Ravenswood Rd.	Port Huron, Mich.
3434	4	Rice, Edward F.	1529 Larchmont Ave.	Lakewood, O.
708	4	Rice, Frank	7208 W. Clinton Ave.	Cleveland, O.
9493	4	Riddell, Clarence L.	2927 Kirk Ave.	Baltimore, Md.
8010	6	Riedy, Fred J.	7516 N. 107 St., Town of Granville, Milwaukee, Wis.	

Pennant	Lodge	Name	Address	City
2006	3	Rinn, William	617 Madison St.	Lapeer, Mich.
9482	17	Ritari, Wayne W.	917 Joseph Ave.	Ashtabula, O.
6044	17	Rittenhouse, James	584 Sandusky St.	Conneaut, O.
9498	1	Robinson, Ernest R.	6732 Shenandoah Ave.	Allen Park, Mich.
9013	2	Robinson, James A.	414 Dawson St.	Sauite Ste. Marie, Mich.
9485	15	Robinson, Norman	55 St. Peter St.	Collingwood, Ont.
9299	4	Robinson, Theo. C.	19726 Riverwood Ave.	Rocky River 16, O.
9510	15	Robson, Peter A.		Meaford, Ont.
9504	12	Rogers, William T.	229½ No. 4th Ave.	Duluth, Minn.
9401	4	Rolfson, Joseph N.	402 Lake Forest Dr.	Bay Village, O.
9074	1	Rosendahl, Neils	103 Bowman Ave.	Salem, Va.
8020	1	Ross, John J.	801 South Berney St.	Bay City, Mich.
2230	4	Rourke, John	860-19th Ave.	St. Petersburg, Fla.
9225	15	Rouse, Herbert A.	Brown St.	Warton, Ont.
3223	1	Ruddle, W. C.	R. R. 2 Niagara St.,	St. Catharines, Ont.
9359	4	Ruddy, Harry J.	13016 Forest Hill Ave.	E. Cleveland, O.
3607	12	Ruks, Clarence S.	2531 E. 4th St.	Superior, Wis.
3457	4	Rushin, Michael	966 Brunswick Rd.	Cleveland Hts., O.
9137	4	Russell, H. Wm.		Burton, O.
4040	4	Rutledge, John	1508 Rockefeller Bldg.	Cleveland, O.
6097	4	Ryan, Ralph D.	R. F. D., Cook Road,	North Olmstead, O.
9344	4	Ryan, Robert C.	26927 Knickerbocker Rd.	Bay Village, O.
2229	4	Rydholm, C. O.	13610 Shaker Blvd., Apt. 603,	Cleveland, O.
4036	4	Sagen, John	2799 Wagar Rd.	Rocky River 16, O.
9363	12	Salo, Ronald A.	1228 Seventh Ave. E.	Duluth, Minn.
9333	4	Saltsman, Robert J.	1652 Lincoln Ave.	Lakewood 7, O.
3423	4	Sandiford, Geo. M.	2209 13th St.	Lorain, O.
8043	4	Sandvik, Helmer	13821 Clifford Ave.	Cleveland 11, Ohio
2991	1	Saunders, T. H.	233 Crosby Ave.	Kenmore 23, N. Y.
1088	4	Saunders, Thos. H.	7 Winchester Pl., Apt. 14	Kenmore 23, N. Y.
8078	12	Sayen, Marshall C.	807 E. 4th St.	Superior, Wis.
2984	4	Scheible, Frank A.	1376 Webb Rd.	Lakewood, O.
2373	4	Scheible, H. J.	1374 Webb Rd.	Lakewood, O.
3407	6	Schlegel, Wm.	2003 South 15th Street	Sheboygan, Wis.
3577	10	Scobie, Harry C.	720 Pickering St.	Ogdensburg, N. Y.
6002	6	Scott, Edward J.	1728 No. 52nd St.	Milwaukee, Wis.
3537	3	Seligman, Wm. J.	9044 Colfax Ave.	Chicago 17, Ill.
9494	4	Sexsmith, Stuart W.	15830 Edgecliff Ave.	Cleveland, O.
6087	17	Shannon, James G.	1801 W. 7th St.	Ashtabula, O.
9229	15	Sharpe, J. W.	305-A Clarence St.	Port Colborne, Ont.

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Pennant	Lodge	Name	Address	City	Pennant	Lodge	Name	Address	City
5011	7	Shaw, Carroll R.	236 Lenox Ave.	Detroit 15, Mich.	4078	6	Sullivan, Jere B.	2508 E. Bellevue Pl., Apt. 25	Milwaukee 11, Wis.
9457	1	Shaw, Edward	301 Andrews Park Blvd.	Erie, Pa.	9545	7	Sullivan, Thos. L.	2733 W. Potomac Ave.	Chicago, Ill.
9159	4	Shaw, Linwood I.	P. easant Valley Rd., R. No. 1.	Berea, O.	2079	7	Sullivan, Wm. E.	1853 Winston Blvd.	Toledo, O.
9284	4	Sheffield, Wesley	R. D. No. 4, Box 84	Jefferson, O.	9541	15	Sutter, Howard B.	R. R. No. 1	Mar, Ont., Canada
9305	4	Shelley, Gilbert L.	1201 Summit Ave.	Lakewood 7, O.	6031	1	Sweet, George	81 Chatsworth Ave.	Kenmore 17, N. Y.
6020	1	Shinsky, Francis	54 Elmwood Pkwy.	Tonawanda, N. Y.	2023	12	Swenson, Albert	P. O. Box 102	Duluth 2, Minn.
3660	17	Simonds, Wm. T.	1706 E. 47th St.	Ashtabula, O.	8086	4	Syfert, Willis E.	299 Cleveland Court	Conneaut, O.
1784	3	Simons, John	203 W. Indiana Ave., P. O. Box 503	Chesterton, Ind.	9276	12	Talbott, Raymond E.	5 Miller Rd.	Lake Worth, Florida
6006	2	Simpson, Harold T.	1233 Tenth Ave.	Port Huron, Mich.	3301	12	Taylor, Jno. C.	Box 241	Iron River, Wis.
4056	4	Sinclair, Robert A.	15922 Lake Ave.	Lakewood, C.	9527	10	Taylor, Michael F.	421 Linden St.	Odensburg, N. Y.
9388	15	Sinclair, Ross	2707 Young St.	Toronto, Ont.	6092	9	Teigland, Sverre M.	1201 Mason St.	Toledo, O.
3413	7	Sirath, Bernard	04 Ashland St.	Detroit, Mich.	8028	9	Ten Eyck, Milton	2417 Trenton	Toledo, O.
9005	4	Slocum, Chas. A.	1611 E. 78th St.	Cleveland, O.	3547	4	Tenhonen, John	3380 W. 159th St.	Cleveland, O.
3249	1	Smith, Guy L.	446 Lisbon Ave.	Buffalo, N. Y.	9332	4	Tenhula, Arne	88 Bestview Ave.	Bessemer, Pa.
2512	2	Smith, J. H.		Courtright, Ont.	9476	1	Thom, George H.	R. F. D. No. 1	Brockway, Pa.
3507	4	Smith, Lloyd W.	1525 Bidwell Ave.	Rocky River, O.	8053	12	Thompson, Merle L.	3528 E. 4th St.	Duluth, Minn.
1780	11	Smith, S. H.	903 Michigan St.	Algonac, Mich.	9216	15	Thompson, T. H.	19 Maple Ave.	Pictou, Ont.
9546	12	Smith, William J.	1319 E. 3rd St.	Duluth, Minn.	9265	15	Thompson, Wm. H.	877-2nd Ave., East	Owen Sound, Ont.
8024	12	Smoger, A. F.	Route No. 1, Box 31	Two Harbors, Minn.	4063	12	Thoresen, L. H.	501 N. 21st Ave. W.	Duluth, Minn.
3023	4	Solberg, Even	3466 W. 123rd St.	Cleveland 11, O.	5005	3	Thorpe, Philip E.	5212 Hilcrest Ave.	Detroit 24, Mich.
6073	1	Solfrank, Charles A.	437 Normal Ave.	Buffalo, N. Y.	3429	4	Thorsen, C. A.	2205 Eldred Ave.	Lakewood, O.
3461	12	Sorenson, Alfred D.	20 Howard Gnesen Rd.	Duluth, Mich.	4083	3	Tilley, John C.		Belgium, Wis.
4020	1	Stanton, John	9523 Linwood Ave.	Buffalo 2, N. Y.	9239	15	Tischart, Stan.	70 37th St.	Long Branch, Ont.
3695	4	Starr, R. W.	27031 Midland Rd.	Bay Village, O.	1469	3	Tisdale, Geo. B.	Box 125	Douglas, Mich.
3615	4	Stender, Walter	17012 Woodbury St.	Cleveland, O.	3588	1	Toale, O. Arthur	327 Burroughs Drive	Snyder 21, N. Y.
9369	15	Stephens, George		Midland, Ont.	6078	4	Todd, Frederic B.	1627 Elbur Ave.	Lakewood, O.
9223	15	Stephens, John B.	300 Broadway Ave.	Toronto, Ont.	9200	17	Todd, Harold J.	R. F. D. No. 4, N. Ridre Rd.	Ashtabula, O.
9456	15	Stephens, Thomas E.	114 West St.	Port Colborne, Ont.	9481	9	Todd, Herbert	1494 Craigwood Road	Toledo, O.
6054	17	Stevens, Elbert	250 Rieg Ave.	Conneaut, O.	9088	9	Toth, Michael	126 Carbon St.	Toledo, O.
3080	12	Stewart, C. C.	Box 626	Deland, Fla.	9512	7	True, Marvin D.	532 North York St.	Dearborn, Mich.
2428	11	Stewart, Harvey A.	1220 St. Clair River Dr.	Algonac, Mich.	9478	4	Turbett, Thomas E.	906-9th St.	Lorain, O.
3081	7	Stewart, H. L.	1002 S. "B" St.	Lake Worth, Fla.	3151	1	Turner, Duncan	151 Dartmouth Ave.	Buffalo, N. Y.
1769	11	Stewart, M. M.	1609 St. Clair River Dr.	Algonac, Mich.	3639	9	Tussay, Michael J.	301 Avalon Place	Toledo 11, O.
9461	4	Stiglin, Albert Capt.	R. D. No. 2 Ridsen Road	Vermilion, O.	9468	3	Uhlir, Emil A. Capt.	4358 Baintree Rd.	Cleveland 18, Ohio
9090	1	St. John, Joseph S.	White Swan Farms, R. D. No. 1	Erie, Pa.	9057	6	Ufig, Roman	R. R. No. 1, Box 38, Harbor Beach	Mich.
9204	2	Stoll, Ronald		North Branch, Mich.	3464	4	Ursem, Rolland A.	1660 Cordova St.	Lakewood, O.
9421	4	Strachan, Wallace A.	13425 Thornhope Rd.	Cleveland 11, Ohio	9380	12	Valentine, Chas. K.	8003 Grand Ave.	Duluth, Minn.
8030	1	Suchan, Louis J.	353 S. Park Ave.	Buffalo, N. Y.	9039	2	Vanderlake, R. C.	1222 Garfield St.	Port Huron, Mich.
4087	6	Sullivan, Daniel C.	5907 N. Bay Ridge	Milwaukee, Wis.					
2043	12	Sullivan, D. T.		Sandstone, Minn.					



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## LIST OF ACTIVE MEMBERS

47

Pennant	Lodge	Name	Address	City	Pennant	Lodge	Name	Address	City
3411	4	VanderWyden, P. W.	20815 Stratford Ave.,	Rocky River 16, O.	3678	12	Wiersch, Henry F.	19558 Riverwood Ave.,	Rocky River 16, O.
8083	1	Van Orman, H. R.	2404 South Ave.	Niagara Falls, N. Y.	3178	1	Wilcock, Austin	200 Claremont Ave.	Buffalo 22, N. Y.
6098	17	Viall, Edgar H.	706 Norman Ave.	Ashtabula, O.	3503	4	Wilcox, Frank	3404 Tullamore Rd.	Cleveland Hts., O.
4042	12	Vieira, Carl	1033 W. 4th St.	Erie, Pa.	9069	10	Wilhelmy, Albert S.	98 Montana Ave.	Buffalo 11, N. Y.
9518	6	Viksjo, Claus P.	5074 North Hollywood Av.	Milwaukee 11, Wis.	8047	7	Wilkerson, DeWitt	16500 Washburn Ave.	Detroit, Mich.
3016	6	Viksjo, Harold B.	3910 W. 210th Street,	Fairview Park Cleveland, Ohio	8066	17	Wilkins, Merle	McCreary Rd., R. F. D. No. 2	Erie, Pa.
9347	1	Vondran, John	19 Shoreham Blvd.	Buffalo, N. Y.	9530	15	Williamson, C. G.	5 Carey Rd.	Toronto, Ont., Canada
9459	12	Wachelin, Geo. H.	101 E. Upright	Charlevoix, Mich.	9021	9	Williamson, Eldon M.	430 Algonquin Pkwy.	Toledo 6, O.
2160	4	Wade, F. J.	1007 N. "M" St.	Lake Worth, Fla.	1837	1	Williamson, P. L.	40 Highgate Ave.	Buffalo, N. Y.
9275	7	Wagner, Harold W.	1416 So. M. St.	Lake Worth, Fla.	9393	15	Willton, Charles	158 Close St.	Toronto, Ont.
9025	4	Wagner, Joseph M.	935 Ravine Drive	Cleveland Hts. 21, O.	2527	7	Wilson, Geo. W.	5522 Underwood Ave.	Detroit 4, Mich.
8026	1	Wagner, Marcus J.	R. F. D. No. 1	North Collins, N. Y.	9455	15	Wilson, Thomas	308 Queen St.	Midland, Ont.
2533	1	Walle, Martin	245 Highgate Ave.	Buffalo, N. Y.	1408	7	Wilson, Wm.	4041 N. Lowell Ave.	Chicago, Ill.
9271	15	Walton, James S.		Courtright, Ont.	5071	6	Wissbeck, Harold O.	2865 N. 51st St.	Milwaukee 10, Wis.
9471	15	Ward, G. S.	27 Pine St.	Port Dalhousie, Ont.	9496	1	Wolff, Maurice A.	119 East New York Ave.	Oshkosh, Wis.
3253	4	Ward, William	2230 Harbor View Blvd.	Lorain, O.	3322	4	Woodford, R. F.	Rt. No. 2, Box No. 569	Pompano Beach, Fla.
9081	7	Warner, Kenneth G.	16078 Lola Dr.	Detroit 23, Mich.	9198	12	Woodard, Cedric C.	503 Leicester Ave.	Duluth, Minn.
9449	7	Warren, C. E.	370 McEwan St.	Windsor, Ont.	9508	15	Wright, Robt. A.	327 Walton St.	Cobourg, Ont.
9513	15	Watson, R. R.	RFD No. 1	Port Arthur, Ontario	2951	7	Yates, George	3515 Springle Ave.	Detroit, Mich.
8088	12	Watts, Philip R.	1428 London Rd.	Duluth, Minn.	9361	4	Yonkers, William C.	3624 W. 138th St.	Cleveland 11, O.
3679	7	Waurzyniak, George	15479 Collingham Dr.	Detroit 5, Mich.	3616	4	Young, Carlton W.	R. D. Thirty Acres	Hudson, O.
3508	4	Weber, Alfred B.	121 Jaycox Rd.	Avon Lake, O.	9257	15	Young, Charles J.	Box 456	Collingwood, Ont.
6083	3	Wegsund, Sigfred	4115 Kamerling Ave.	Chicago 51, Ill.	9232	15	Young, Isaac	197 Spruce St.	Collingwood, Ont.
9226	15	Welbanks, Harry	6 Queen St.	Picton, Ont.	9240	15	Young, Lorne H.	24 Oak St.	Collingwood, Ont.
9486	15	Welland, A. E.	64 Southwood Dr.	Toronto, Ont.	9186	9	Zahorik, Roger V.	c/o Marvin Wiles, 712 N. Ferry St.	Ludington, Mich.
9328	4	Welland, Gerald S.	905 Rockefeller Bldg.	Cleveland 13, O.	9389	12	Zawacki, John A.	1513 Hughitt Ave.	Superior, Wis.
9318	15	Welland, Robert O.	36 Geneva St.	St. Catharines, Ont.	9474	4	Zeber, Henry W.	4511 Denison Ave.	Cleveland 2, O.
2162	4	Wendorf, Herman	Root Road, R. F. D. No. 1	Elyria, O.	3652	9	Zeigman, Oliver L.	R. F. D. No. 1	Elyria, O.
9525	9	Wheeler, Morris C.	6013 321 St.	Toledo, Ohio	9503	9	Zyp, Ace C.	1757 Marne Ave.	Toledo 13, Ohio
3478	4	Whitlock, D. T.	13842 Clifton Blvd.	Lakewood, O.					
9357	1	Wiepert, Joseph	72 Zimmerman Blvd.	Kenmore 23, N. Y.					

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NAMES AND ADDRESSES OF ASSOCIATE MEMBERS, INTERNATIONAL SHIP MASTERS' ASSOCIATION

Pennant	Name	Address	City	Pennant	Name	Address	City
A 516	Affleck, William D.	438 W. Belden Ave., Apt 11,	Chicago, Ill.	A 265	Bridge, William	702 Lake St.	Toledo, O.
A 748	Alexander, Alfred	251 Stanford St.	Elyria, O.	A 779	Brown, Lt. G, U.S.N.	2002 Delaware Ave.	Buffalo 16, N. Y.
A 715	Anderson, Stanley W.	721 North 9th St.	St. Clair, Mich.	A 594	Bruch, H. S.	1719 Union Blvd., S. E.	Grand Rapids, Mich.
A 679	Andrews, Harry L.	7035 N. Ridge Ave.	Chicago 45, Ill.	A 559	Buchanan, David L.	21870 Crystal Ave.	Cleveland, O.
A 587	Andrus, Geo. C.	Weather Bureau	Cleveland, O.	A 528	Buckley, Fred S.	1446 Algonquin Rd.	Des Plaines, Ill.
A 737	Ashley, John W.	814 Greene St.	Ogdensburg, N. Y.	A 822	Burchfield, Victor L.	919 Johnstone St., Sault Ste. Marie,	Mich.
A 719	Asta, Eugene	726 Buffalo St.	Toledo, O.	A 687	Burdg, M. K.	2547 Bloor St. W.	Toronto, Ont.
A 621	Atwood, William E.	10017 Lake Ave.	Cleveland, O.	A 598	Burke, John	240 Fulton St.	Buffalo, N. Y.
A 738	Augsbury, Frank A. Jr.	522 Crescent St.	Ogdensburg, N. Y.	A 651	Burke, Thomas W.	776 Potomac Ave.	Buffalo, N. Y.
A 296	Ayres, Joseph B., Jr.	MarKell Road	Mentor, O.	A 179	Butler, Patrick	137 E. 8th St.	St. Paul, Minn.
A 474	Baizarie, M. A.	18959 Northland St.	Detroit, Mich.	A 832	Brunham, Oliver T.	53 West St.	Berlin Heights, Ohio
A 267	Barry, Clinton	1235 Nicholson Ave.	Lakewood, O.	A 359	Butt, Harvey R.	431 Broadway	Bedford, O.
A 786	Bates, James S.	13871 Edgewater Dr.	Lakewood, Ohio	A 803	Cain, Jack	28021 Sites Rd.	Bay Village, Ohio
A 825	Bates, Robert E.	12 S. Elmwood Park	Tonawanda, N. Y.	A 396	Callahan, G. W.	10017 Lake Ave.	Cleveland 2, O.
A 465	Beaudry, Verner	5432 Summit St.	Toledo, O.	A 739	Campbell, Thompson	18973 Northlawn St.	Detroit 21, Mich.
A 412	Behringer, Peter E.	121 W. Winspear Ave.	Buffalo, N. Y.	A 833	Carle, Wm. D.	10316 Clifton Blvd.	Cleveland 2, Ohio
A 421	Bennett, Frank S.	3191 Goldengate	Cleveland, O.	A 408	Carlson, Gustaf E.	2325 Walnut Blvd.	Ashtabula, O.
A 816	Bennett, Gordon F.	319 W. Ferry St.	Buffalo, N. Y.	A 741	Carlson, Henry	Bowen Rd.	Lancaster, N. Y.
A 644	Berg, Robert P.	85 "B" St.	Tonawanda, N. Y.	A 478	Carter, Ray T.	175 Zimmerman St., N.	Tonawanda, N. Y.
A 800	Bernhardt, Charles J.	377 Delaware Ave.	Tonawanda, N. Y.	A 478	Cassidy, E. R.	Rockefeller Bldg.	Cleveland, O.
A 583	Berthiaume, N. J.	2621 Ogden Ave.	Superior, Wis.	A 807	Charbonneau, Earl J.	2123 1/2 East 5th St.	Superior, Wisc.
A 413	Beutner, Gustave	328 Broad St.	Tonawanda, N. Y.	A 767	Christenson, M. A.	1206 North 22nd St.	Superior, Wis.
A 661	Bibby, Richard D.	1568 Wagar Ave.	Lakewood 7, O.	A 675	Clague, John E.	2746 Cleveland Blvd.	Lorain, O.
A 564	Birdsong, Walton	9816 Leo Ave.	Cleveland, O.	A 353	Clampet, Gratton	39 Belvedere Rd.	Buffalo, N. Y.
A 801	Bobula, John P.	142 Van Rensselaar St.	Buffalo 10, N. Y.	A 532	Clark, Marc J.	685 Colvin Blvd.	Kenmore, N. Y.
A 310	Bodette, Edward	704 Boalt St.	Toledo, O.	A 352	Cloy, Douglas	35 Chapel St.	Thorald, Ont.
A 46	Boland, John J.	Marine Trust Bldg.	Buffalo, N. Y.	A 288	Coleman, J. Ross	9610 Gaylord Ave.	Cleveland 5, O.
A 175	Boland, Jr., John J.	Marine Trust Bldg.	Buffalo, N. Y.	A 802	Collins, H. W.	2011 Laurel Hill Dr.	South Euclid, Ohio
A 397	Bolton, Ralph	667 Eggert Rd.	Buffalo, N. Y.	A 538	Condon, Paul R.	2419 Hammond Ave.	Superior, Wis.
A 588	Bowen, Dana Thomas	1516 South Peninsular Dr.	Daytona Beach, Fla.	A 657	Connelly, James N.	469 Crescent Ave.	Buffalo, N. Y.
A 484	Boyd, Cleo E.	457 Goundry St., North Tonawanda,	N. Y.	A 571	Constans, N. M.	136 Waverly Pl.	Duluth, Minn.
A 775	Bradley, Leonard E.	131 Lockport Ave.	Buffalo, N. Y.	A 60	Cornelius, Adam E.	Marine Trust Bldg.	Buffalo, N. Y.
A 167	Brady, Frank P.	Great Lakes Transit Corp.,	Buffalo, N. Y.	A 723	Cornelius, Adam E. Jr.	1016 Marine Trust Bldg.	Buffalo, N. Y.
A 439	Branard, Robert	1195 Tower Rd.	Winetka, Ill.	A 561	Cottier, J. E.	1600 Rockefeller Bldg.	Cleveland, O.
A 554	Brand, Wm. E.	22 "A" Street	Buffalo, N. Y.	A 563	Cottier, Philip	1600 Rockefeller Bldg.	Cleveland, O.
A 502	Braun, H. C.	260 Dodge St.	Buffalo, N. Y.	A 539	Cox, Charles V.	1100 No. Vernon St.	Dearborn, Mich.
A 481	Brickell, Fred S.	571 Kenmore Ave.	Kenmore, N. Y.	A 712	Crawford, Gordon L.	52 E. Morris Ave.	Buffalo 14, N. Y.
				A 470	Crawford, Mathew M.	1911 East Third St.	Duluth 5, Minn.

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# NAMES AND ADDRESSES OF ASSOCIATE MEMBERS

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Pennant	Name	Address	City
A 685	Crilly, Fred C.	1942 Church St.	Wauwatosa, Wis.
A 593	Crimmins, DeForest	240 Oliver St.	North Tonawanda, N. Y.
A 520	Cummings, Douglas	.64 Seymore St.	Tonawanda, N. Y.
A 575	Dadd, George	2031 Revely St.	Lakewood 7, O.
A 730	Daly, James T.	511 Crescent Ave.	Buffalo, N. Y.
A 270	Daly, John J.	U. S. Coast Guard,	Port Hueneme, Calif
A 729	Daly, Leonard P.	205 Ramisdell	Buffalo, N. Y.
A 540	Damas, Ray L.	1290 W. 11th St.	Cleveland 13, O.
A 531	Dana, Arthur W.	1674 Lincoln Ave.	Lakewood 7, O.
A 791	Danielson, C. U.	16605 Elsienna Ave.	Cleveland, O.
A 565	Deane, John E.	90 Mona Drive	Eggertsville 21, N. Y.
A 543	DeBruyne, Henry	3704 E. 4th St.	Superior, Wis.
A 774	DeCola, Joseph A.	1125 East 6th St.	Ashtabula, Ohio
A 403	Delay, William E.	Madison Ave.	Painesville, O.
A 669	Denny, Arthur C.	518 Washington St.	Ogdensburg, N. Y.
A 756	DeRoque, Harold	490 Humiston Dr.	Bay Village, Ohio
A 551	DuRant, G. W.	1414 Marine Trust Bldg.,	Buffalo, N. Y.
A 374	Digby, Floyd R.	2310 W. Monroe	Sandusky, O.
A 641	Ditzel, Harley E.	117 2nd Ave.	East Duluth, Minn.
A 214	Donahue, Vincent J.	2140 Woodward Ave.	Lakewood, O.
A 773	Donatone, John L.	1653 West 4th St.	Ashtabula, Ohio
A 425	Donovan, James A.	7252 University Ave.	Chicago 19, Ill.
A 467	Donovan, John T.	105 Cayuga St.	Oswego, N. Y.
A 517	D'Orazio, Richard A.	28 Fremont St.	Tonawanda, N. Y.
A 402	Doxie, Charles J.	1724 Walnut Blvd.	Ashtabula, O.
A 814	Dressler, W. C.	3316 Daleford Rd.	Shaker Hgts, Ohio
A 728	Drew, Eugene E.	19 Henley Road	Buffalo, N. Y.
A 759	Durr, Henry H.	230 Melrose	Toledo, O.
A 483	Dussing, Donald J.	921 Chamber of C. Bldg.	Buffalo, N. Y.
A 761	Eishen, Paul J.	534 Fiftieth St.	Sandusky, O.
A 521	Elder, Robert A.	610 W. 46th St.	Ashtabula, O.
A 505	Ellingsen, Arnold J.	3424 So. 45th St.	Milwaukee, Wis.
A 762	Elliott, Vincent A.	19701 Westover	Rocky River, O.
A 574	Engel, John J.	2019 Walnut Blvd.	Ashtabula, O.
A 485	English, Frank	495 Riley St.	Buffalo, N. Y.
A 461	Erbe, Julius F.	519 Grasser St.	Toledo, O.
A 631	Erlanson, C. L.	801-7th Ave., East	Superior, Wis.
A 463	Etau, J. L.	940 Grasser St.	Toledo, O.

Pennant	Name	Address	City
A 547	Evans, Earl C.	Rt. No. 1, Abbott Rd.	Hamburg, N. Y.
A 784	Evar, Robert C.	724 Norman Ave.	Ashtabula, Ohio
A 790	Fahey, Joseph E.	1940 Sagamore Dr.	Euclid 17, Ohio
A 677	Faller, Harold O.	2208 So. 77th St.	West Allis, Wis.
A 432	Farrell, James W.	427 Beard Ave.	Buffalo, N. Y.
A 208	Falkiner, R. B. Sr.	471 South Court St.	Crown Point, Ind.
A 768	Fina, Louis R., Jr.	3834 So. Park Ave.	Lockawana, N. Y.
A 579	Finn, Dr. Milton.	1507 Tower Ave.	Superior, Wis.
A 760	Flaherty, Frank E.	1504 Addington Rd.	Toledo, O.
A 277	Flood, Earl D.		Hudson, O.
A 828	Flood, Earl F.	Vailey View St.	Hudson, Ohio
A 703	Foley, James	1 S. St. Clair St.	Toledo, O.
A 695	Fontaine, William C.	1108 Broadway St.	Superior, Wis.
A 709	Foster, Frank D.	16518 Clifton Blvd.	Lakewood 7, O.
A 303	Forster, E. H.	4524 Overland Pkwy.	Toledo, O.
A 487	Frankforther, Ray O.	1117 Prospect Ave.	Toledo, O.
A 535	Franz, Thomas	68 Mineral Spring Rd.	Buffalo 10, N. Y.
A 605	Fraser, Robert M.	1014 N. 22nd Ave.	W. Duluth, Minn.
A 611	Frauenheim, Edw. E.	1314 Niagara St.	Buffalo, N. Y.
A 665	Fritz, Albert E.	816 W. Central Ave.	Toledo, O.
A 770	Furlong, Phillip	5044 Glenwood Ave.	Chicago, Ill.
A 560	Garbutt, John B.	12512 Astor Ave.	Cleveland 11, O.
A 787	Gaseau, Norman A.	1318 West 104th St.	Cleveland 2, Ohio
A 445	Geary, Bernard	1650 W. 6th St.	Ashtabula, O.
A 603	Geary, John T.	1823 W. 7th St.	Ashtabula, O.
A 382	Geary, Nelson	700 Lake Ave.	Ashtabula, O.
A 137	Gehm, John	16 Crescent Ave.	Buffalo, N. Y.
A 590	Geiger, Harold F.	23084 Marion Rd.	Cleveland 16, O.
A 244	Geissler, John C.	3449 W. 125th St.	Cleveland, O.
A 550	Gerard, J. F.	32 Deavonshire St.	Kenmore, N. Y.
A 422	Germani, Gail J.	1124 E. First St.	Monroe, Mich.
A 580	Gernander, A. C.	616 North 44th Ave., W.	Duluth, Minn.
A 811	Gernander, Sidney A.	1220 North Central Ave.	Duluth, Minn.
A 614	Gillies, Donald H.	4505 Wood St.	Erie, Pa.
A 390	Gilmer, Lewis B.	714 Cascade Rd.	Pittsburgh, Pa.
A 362	Gobeille, H. L.	11209 Lake Ave.	Cleveland, O.
A 813	Goodell, Wesley A.	339 Kentucky Ave.	Lorain, Ohio
A 744	Goodman, S. Carl	54 Glenridge Ave.	St. Catherines, Ont., Can.



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Pennant	Name	Address	City	Pennant	Name	Address	City
A 330	Goebel, E. J.	128 W. Monroe St.	Chicago, Ill.	A 171	Hutchinson, F. S.	20663 Stratford Rd.	Rocky River, O.
A 771	Gordon, Herbert E.	1107 Bunker Hill Rd.	Ashtabula, Ohio	A 173	Hutchinson, Gene C.	% Hutchinson Co., Rockefeller Bldg.,	Cleveland, O
A 576	Grant, John J.	10043 Baltic Rd.	Cleveland 2, O.				
A 618	Green, George W.	5338 Patriot Drive	Toledo, O.	A 726	Ingwersen, M.	R. D. No. 5, So. Park Ave.	Buffalo, N. Y.
A 671	Griffin, Julian S.	The Cleveland Press	Cleveland, O.	A 818	Isoola, Angelo S.	6052 So. Harper Ave.	Chicago 37, Ill.
A 533	Grimm, Frank J.	121 Norwood St.	Buffalo, N. Y.				
A 689	Grondin, Arthur G.		St. Ignace, Mich.	A 499	Jacobs, Edward	East 5th St.	Washburn, Wis.
A 830	Hagelin, C. C.	4729 London Rd.	Duluth 4, Minn.	A 753	Jackson, Walter T. Jr.	257 Elmwood Ave.	Buffalo 22, N. Y.
A 365	Hageman, H. E.	1155 7th St.	Lorain, O	A 696	Jameson, A. E.	21430 Westwood Rd.	Fairview Village, O.
A 701	Haigh, James C.	8156 Eliis Ave.	Chicago, Ill.	A 464	Johnson, H. R.	121 W. Water St.	Sandusky, O.
A 633	Hall, Eugene	10512 S. Forest Ave.	Chicago, Ill.	A 673	Johnson, Theodore	505 Columbia Rd.	Westlake, O.
A 717	Hall, Norman	1042 Camp St.	Sandusky, Ohio	A 763	Jonassen, Lief V.	19670 Edgecliff Dr.	Euclid, O.
A 720	Hall, Werner W.	1915 Campbell St.	Sandusky, O.	A 682	Jordan, Dean H.	819 Sixth Ave.	Two Harbors, Minn.
A 455	Hamilton, Mark A.	1646 N. Erie St.	Toledo, O.	A 356	Jurecky, Stephen	8743 Woodward Ave.	Highland, Ind.
A 743	Hammett, Loran F.	1968 Lakeview Ave.	Rocky River, O.	A 691	Justmann, Emil F. W.	5919 W. Newport Ave.	Chicago 34, Ill.
A 221	Hansen, Hans	318 Washington St.	Toledo, O.	A 815	Kadans, Joseph	P. O. Box 291	Port Huron, Mich.
A 650	Hart, Clifford W.	45 Illinois St.	Buffalo, N. Y.	A 792	Karnofsky, Louis	272 Norwalk Ave.	Buffalo, N. Y.
A 486	Hattenberger, Charles	21 Freeman St.	Buffalo, N. Y.	A 509	Kasting, William L.	63 Barker St.	Buffalo, N. Y.
A 243	Hauser, John A.	81 Lamarck Dr.	Snyder, N. Y.	A 526	Keener, Dr. O. C.	1624 Sheridan Dr.	Kenmore, N. Y.
A 190	Hausheer, Louis H.	3598 Warren Road	Lakewood, Ohio	A 436	Kennedy, Joseph	244 Comstock Ave.	Buffalo, N. Y.
A 750	Hays, Lee	1379 Parkview Dr.	Lyndhurst, O.	A 608	Kerber, Fred	1006 Tiffin Ave.	Sandusky, O.
A 823	Heffernan, James T.	88 Clinton St.	Tonawanda, N. Y.	A 187	Kern, Albert B.	13710 Shaker Blvd.	Cleveland 20, O.
A 366	Heisner, D. A.	Stop No. 4, West Lake Rd.	Lorain, O.	A 557	Kessler, Harry H.	2902-117th St.	Toledo, O.
A 623	Heist, Charles H.	11 Blossom Heath Rd., Williamsville, N. Y.		A 341	Kielbosa, Stanley	2309 N. Springfield St.	Chicago 47, Ill.
A 733	Hemingway, W. C.	Wade Park Manor	Cleveland, O.	A 370	Kimmins, Earl A.	5415-301st St.	Toledo, O.
A 530	Henry, H. C.	211 Delaware Ave.	Buffalo, N. Y.	A 616	Kirby, Clifford	4724 Summit St.	Toledo, O.
A 700	Hermansen, T. M.	West 132nd St.	Cleveland 11, Ohio	A 764	Kirby, Thomas Wm.	17415 Cannon Ave.	Lakewood, O.
A 804	Herrick, R. H.	2150 E. Erie Ave.	Lorain, Ohio	A 534	Klaiber, Sylvester H.	132 Riverside Dr.	Buffalo, N. Y.
A 537	Hessinger, Milton P.	112 Longview Ave.	Buffalo, N. Y.	A 507	Knack, Emerson H.	4230 Bishop Rd.	Detroit, Mich.
A 660	Hider, Paul G.	517 North Main St.	Marine City, Mich.	A 607	Knudsen, E. C.	5927 Cgden Ave.	Superior, Wis.
A 747	Hieber, George H.	Highland Rd.	Gates Mills, O.	A 597	Koch, John C.	264 Carl St.	Buffalo 15, N. Y.
A 680	Holt, Carl A.	7752 Muskegon	Chicago 49, Ill.	A 668	Kotchon, Joseph	519 Manistique Ave.	Manistique, Mich.
A 191	Holt, Thomas	Skybryte Co., 3125 Perkins Ave.	Cleveland, O.	A 643	Kraft, Daniel C. B.	107 Tillinghast Pl.	Buffalo, N. Y.
A 592	Horgan, Frank P.	228 S. 19th Ave. East	Duluth, Minn.	A 809	Kretzman, Frank S.	38 Andres Pl.	Buffalo, N. Y.
A 757	Horton, John L.	11741 Edgewater Dr.	Lakewood, O.	A 707	LaBianc, Albert	Nicolet Rd.	Green Bay, Wis.
A 203	Hosford, Harry W.	2565 Stratford Rd.	Cleveland, O.	A 453	LaDuca, Ralph L.	54 Harwood Dr.	Snyder, N. Y.
A 629	Houle, Chas. W.	1318-20th Street	Port Huron, Mich.	A 716	Lambert, Bert	2143 Upton St.	Toledo, O.
A 373	Howard, Warden A.	6 West Grimsby Rd.	Kenmore, N. Y.	A 490	Lane, William J.	23280 Forest Ave.	Ferndale 20, Mich.
A 404	Huggins, E. J.	1719 W. 4th St.	Ashtabula, O.	A 185	Lang, R. W.	2196 Bellefield Rd.	Cleveland, O.
A 711	Hull, D. B.	808 Willet Rd.	Buffalo 19, N. Y.	A 197	Lange, Oscar J.	36 Frontenac Ave.	Buffalo, N. Y.
A 586	Hunt, George W.	823 W. 2nd St.	Ashland, Wis.	A 755	Lannan, W. L.	303 Fielden Ave.	Port Colborne, Ont.
				A 495	Larsen, Nels	1812 E. 10th St.	Duluth, Minn.



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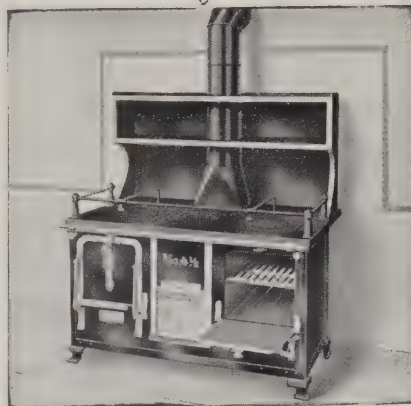


# NAMES AND ADDRESSES OF ASSOCIATE MEMBERS

55

Pennant	Name	Address	City
A 622	Larson, Thomas H.	732 N. Cass	Milwaukee 2, Wis.
A 785	Lawrence, Calvin H.	1938 Lakeview Ave.	Rocky River, Ohio
A 724	Lawson, Richard H.	187 Cherry St.	Buffalo, N. Y.
A 654	Legault, Thos.	1211 Green St.	Ogdensburg, N. Y.
A 444	Lehtinen, Francis J.	1502 Rockefeller Bldg.	Cleveland, O.
A 706	Leopold, Wilbert H.	220 Buckingham Rd.	Rocky River, O.
A 684	Lester, Henry J.	2338 E. Erie St.	Lorain, O.
A 625	Lewis, Bertran B.	530 Humiston Dr.	Bay Village, O.
A 357	Lewis, L. P.	24622 Oakland Rd.	Bay Village, O.
A 745	Lieppert, Henry J.	33 Ellwood Place	Buffalo 21, N. Y.
A 596	Logel, Frank J.	270 Stevens Ave.	Buffalo 15, N. Y.
A 279	Long, Earl F.	1046 Camp St. Market	Sandusky, O.
A 788	Longtine, Percy	1105 East 4th St.	Superior, Wis.
A 285	Loomis, Jack	6217 Carnegie Ave.	Cleveland, O.
A 546	Lowry, Robert E.	2223 Banks Ave.	Superior, Wis.
A 454	Loughlin, Ray	371 Cumberland Ave.	Buffalo, N. Y.
A 364	Lovell, Robert A.	Great Lakes Towing Co.	Buffalo, N. Y.
A 781	Lucking, William A.	811 Barten Shore Dr.,	Barten Hills, Ann Arbor, Mich.
A 635	Lucy, W. P.	9848 Lawndale	Chicago 42, Ill.
A 381	Lukkarla, Julius	1306 West 3rd St.	Ashtabula, O.
A 361	Lynn, George F.	Buffalo Dry Dock Co.	Buffalo, N. Y.
A 805	Mac Dermid, James	1706 West 8th St.	Ashtabula, Ohio
A 663	MacGregor, J. K.	1224 Richmond Rd.	Lyndhurst, O.
A 652	MacKay, Roger W.	622 Grayton Rd.	Berea, O.
A 653	MacLean, Malcolm R.	13809 Clifton Blvd.	Lakewood 7, O.
A 630	MacQueen, M. D.	803 Main St.	Conneaut, O.
A 548	Magee, Edward		Port Colborne, Ont.
A 693	Mallahan, John B.	502 E. Oxford St.	Duluth, Minn.
A 322	Malloch, John W.	4446 N. Francisco Ave.	Chicago 25, Ill.
A 566	Marohn, George	67 Elm	Tonawanda, N. Y.
A 638	Marshall, McAlister	2341 Ardleigh Dr.	Cleveland Hts., O.
A 794	Massenburg, J. W.	15329 Edgewater Drive	Lakewood 7, O.
A 624	Martin, Oscar E.	308 Brisbane Bldg.	Buffalo, N. Y.
A 725	Mast, Henry P. Jr.	237 E. Utica St.	Buffalo, N. Y.
A 628	Mastine, Fred	219 Harrison Ave.	Ogdensburg, N. Y.
A 681	Mathies, Leonard E.	556 Delaware St.	Tonawanda, N. Y.
A 604	Maxim, E. P.	520 Williams St.	Huron, O.
A 523	McCarthy, Patrick J.	1575 Northland Ave.	Lakewood, O.
A 577	McCarthy, T. J.	3362 Wight St.	Detroit, Mich.
A 777	McCarty, Gordon	4783 Tiedeman Rd.	Brooklyn Village, O.
A 710	McCaskill, Angus	750 Water St.	Port Huron, Mich.

Pennant	Name	Address	City
A 581	McDonell, M. W.	705 East High St.	Duluth, Minn.
A 529	McGarry, William J.	1331 W. 102nd St.	Cleveland 2, O.
A 751	McGrath, Tom J. Jr.	2010 Wascana Ave.	Lakewood 7, O.
A 491	McHale, John C.	653 E. 120th St.	Cleveland, O.
A 212	McHenry, Charles	341 East Erie Ave.	Lorain, O.
A 508	McKee, Wade H.	3351 Milverton Rd.	Cleveland, O.
A 656	McLeod, Peter	358 Hamilton Blvd.	Kenmore, N. Y.
A 433	McPherson, R. E.	2469 Noble Rd.	Cleveland Heights, O.
A 602	Mechling, A. L.	51 N. Ottawa St.	Joliet, Ill.
A 503	Mehlick, Geo.	811 Sweetland Bldg.	Cleveland, O.
A 503	Meyer, Alexander C.	188 Jewett Pkwy.	Buffalo, N. Y.
A 395	Meyer, E. F.	33790 W. Lake Rd.	Avon Lake, O.
A 238	Meyer, Roy M.	5413 Archmore Ave.	Cleveland, O.
A 417	Meyer, Wm. L.	3929 Memphis Ave.	Cleveland, O.
A 219	Mighton, Arthur R.	R. F. D. 3, Clark Rd.	Chardon, O.
A 258	Miller, Ernest P.	241 White St.	Toledo, O.
A 740	Miller, Frank J.	290 Middlesex Rd.	Buffalo, N. Y.
A 797	Miller, Rex K.	1019 Union St.	Port Huron, Mich.
A 440	Miller, Theodore, Jr.	2211 Barrington Dr.	Toledo 7, Ohio
A 793	Mincier, Walter	65 Victoria Ave.	Buffalo, N. Y.
A 522	Moebs, Gustave	333 Victoria Blvd.	Kenmore 17, N. Y.
A 686	Moorman, Mark A.	201 Franklin St.	Michigan City, Ind.
A 688	Morrow, Bernard	132 Russell Rd.	Massena, N. Y.
A 601	Mrowka, Stanley P.	Wehrle Dr., American Legion Bldg.	Williamsville, N. Y.
A 163	Muller, Conrad	65 Fairchild Place	Buffalo, N. Y.
A 400	Munson, John G.	436 7th Ave. % U. S. Steel	Pittsburgh, Pa.
A 314	Myers, John H.	188 O'Connell Ave.	Buffalo, N. Y.
A 606	Nason, Gene	38 E. 5th Ave.	Gary, Ind.
A 509	Neson, Byran S.	5831 Baxter Ave.	Superior, Wis.
A 617	Nicholson, Howard L.	692 Northampton St.	Buffalo, N. Y.
A 736	Nielsen, Carl O.	26 Main St.	Toledo, O.
A 401	Noble, Harry J.	270 Chelsea St.	Kenmore 17, N. Y.
A 151	Norris, William F.	5222 Samuel Ave.	Ashtabula, O.
A 479	Obersheimer, Jacob C.	74 Crescent Ave.	Buffalo, N. Y.
A 344	O'Brien, Riley	382 N. Forest Rd.	Williamsville, N. Y.
A 772	O'Connor, Charles E.	1933 Stone St.	Port Huron, Mich.
A 130	O'Donoghue, Edgar	138 Riverside Ave.	Ogdensburg, N. Y.
A 694	Oertling, Herman	1539 N. 50th St.	Milwaukee, Wis.
A 595	Oie, Maxwell E.	9315 South Aberdeen Ave.	Chicago 20, Ill.
	Oldman, George F.	30 Flohr Ave.	Buffalo 10, N. Y.



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Pennant	Name	Address	City	Pennant	Name	Address	City
A 250	Oldman, Nelson E.	32 Illinois St.	Buffalo, N. Y.	A 482	Richardson, George	487 Crescent Ave.	Buffalo, N. Y.
A 510	Olsen, Martin	1583 Warren Rd.	Lakewood, O.	A 132	Richardson, Joseph F.	437 Hobart Ave.	Short Hills, N. J.
A 513	Olsson, Andrew L.	612 W. 39th St.	Ashtabula, O.	A 312	Rickard, Arthur	13735 Parkside Ave.	Detroit, Mich.
A 567	Oswald, John W.	57 Morgan St.	Tonawanda, N. Y.	A 568	Riley, Peter	1148 Elmwood Rd.	Rocky River 16, O.
A 817	Patricola, Edwin	1670 Hertel Ave.	N. Y.	A 749	Risatte, Alfred J.	19730 Fairmount Blvd.	Shaker Hts. 18, O.
A 664	Paul, Frank	1413 Obispa Ave.	Coral Gables, Florida	A 780	Ritchie, A. F.	3678 LaSalle Blvd.	Verdun, Quebec, Can.
A 613	Paulson, Irvin P.	174 Rodney Ave.	Buffalo, N. Y.	A 409	Roach, Fred A.	663 E. 117th St.	Cleveland, O.
A 512	Pederson, Nicolai	627 E. 4th St.	Duluth, Minn.	A 420	Robertson, Jim	128 Park Place	Sault Ste. Marie, Mich.
A 824	Peterson, Ray G.	127 N. 19th Ave.	Duluth, Minn.	A 555	Roos, John Fraser	Culver Military Academy	Culver, Ind.
A 553	Phillips, Frank H.	1075 Leedale Ave.	Lakewood 7, O.	A 646	Ross, Michael	2807 W. Second St.	Duluth, Minn.
A 662	Pickands, Henry S.	23456 Stanford Rd.	Shaker Hts., O.	A 692	Rubel, H. Wray	370 Sugarloaf St.	Port Colborne, Ont.
A 735	Pickhardt, William G.	612 Kennison Pkwy.	Hamburg, N. Y.	A 627	Russell, Ralph H.	417 King St.	Ogdensburg, N. Y.
A 372	Pocotte, Robert W.	4305 Birchall Rd.	Toledo, O.	A 569	Russell, William R.	250 Lakewood Ave., R.D.3	Hamburg, N.Y.
A 328	Potts, Don	1613 Rockefeller Bldg.	Cleveland, O.	A 392	Rust, Emer	1245 Kensington St.	Buffalo, N. Y.
A 655	Pratt, Forest H.	2400 Wilson Ave.	Chicago 25, Ill.	A 270	Rutschow, John W.	1145 Miami St.	Toledo, O.
A 690	Pratt, Ray L.	318 Hurley St.	Sault Ste Marie, Mich.	A 435	Sanders, James	34 Princeton Pl.	Buffalo, N. Y.
A 188	Proctor, J. D.	Erie Dock Co.	Cleveland, O.	A 727	Saunders, Donald H.	233 Crosby Ave.	Kenmore, N. Y.
A 324	Quinton, Rev. John W.		Fremont, O.	A 670	Schenk, Fred J.	496 Juneway Drive	Bay Village, O.
A 599	Raab, Vincent C.	141 Lincoln Blvd.	Kenmore 17, N. Y.	A 468	Schmidt, Edward J.	270 Stevens Ave.	Buffalo 15, N. Y.
A 323	Radosevich, George	10749 Hoxie Ave.	Chicago 17, Ill.	A 573	Schnell, O. W.	2218 John Ave.	Superior, Wis.
A 714	Rainnie, W. O.	3261 East 92nd St.	So. Chicago, Ill.	A 419	Schwab, Raymond J.	401 Guilford St.	Buffalo, N. Y.
A 766	Rake, Henry J.	1300 Leader Bldg.	Cleveland, O.	A 556	Schwedler, Otto	11041 Avenue J	Chicago, Ill.
A 269	Ramsay, T. W.	2220 N. 7th St.	Sheboygan, Wisc.	A 248	Scott, Murray H.	71 Main St.	Port Dalhousie, Ont.
A 678	Rapp, August	Columbia Rd.	Olmsted Falls, O.	A 434	Seifert, Harold	57 Dole St.	Buffalo, N. Y.
A 778	Rapp, Carl F.	4202 West 6th St.	Duluth, Minn.	A 610	Seielstad, Harold D.	1676 Chesterland Ave.	Lakewood 7, O.
A 360	Rappnick, Wm. F.	20925 Erie Rd.	Rocky River, O.	A 504	Shandy, George P.	1621 Grace Ave.	Lakewood, O.
A 410	Rattery, Radcliffe T.	7917 Theison	Dearborn, Mich.	A 229	Shepler, Frank	4615 Manorwood Dr.	Toledo, O.
A 346	Reading, John	6739 Ridgeland Ave.	Chicago, Ill.	A 460	Sheridan, William T.	60 Northumberland Ave.	Buffalo, N. Y.
A 514	Reagan, J. F.	1519 E. Erie St.	Lorain, O.	A 345	Sherman, R. K.	3008 Cheltenham Place	Chicago, Ill.
A 393	Reckner, Ray R.	1219 Prospect Rd.	Ashtabula, O.	A 808	Sherry, Richard, J.	920 Pickering St.	Ogdensburg, N. Y.
A 549	Rehm, Arthur C.	117 Laird Ave.	Buffalo, N. Y.	A 609	Shylo, Anthony J.	165 Eliot Circle	Berea, O.
A 497	Reid, Russell J.	60 Queen St.	Thorold, Ont.	A 591	Silver, Howard M.	19815 Marchmont	Cleveland, O.
A 385	Reinhold, Henry W.	912 Grandview Ave.	Duluth, Minn.	A 388	Silverthorn, C. H.	3471 West 151st St.	Cleveland, O.
A 582	Rennick, Thos. J.	1716 Walnut Blvd.	Ashtabula, O.	A 578	Simmonds, Roy R.	U. S. Engineers' Office	Duluth, Minn.
A 459	Restorff, Irving W.	19 Henley Road	Buffalo, N. Y.	A 492	Slattery, Wm. J.	310 Royce Rd.	Hancock, Mich.
A 414	Reynolds, Oliver A.	2646 N. Moreland Blvd.	Cleveland, O.	A 239	Smith, A. E.	1265 Cranford Ave.	Lakewood, O.
A 829	Rice, John A.	2960 Coleridge Rd.	Cleveland, Ohio	A 204	Smith, A. L.	Stop 61 Lake Road	Avon Lake, O.
A 449	Richards, Ned D.	4423 Foster Ave.	Ashtabula, O.	A 672	Smith, Dale A.	1598 Rockefeller Bldg.	Cleveland 13, O.
				A 572	Smith, Geo. O.	2721½ Minnesota Ave.	Duluth 5, Minn.
				A 200	Smith, John H.	754 Rockefeller Bldg.	Cleveland, O.
				A 632	Smith, John M.	3731 E. 1st St.	Superior, Wis.
				A 826	Smith, Sidney E., Jr.	316 West 10th Street	Erie, Pa.



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Pennant	Name	Address	City	Pennant	Name	Address	City
A 795	Snarfeltz, Karl D.	1355 Mayburn Ave.	Dearborn, Mich.	A 789	Travis, Leon	97 Lexington Ave.	Buffalo, N. Y.
A 713	Snead, Clarence E.	611 Ashland St.	Detroit 15, Mich.	A 268	Trepp, Wallace		Pombano, Fla.
A 570	Solberg, G. C.	911 Prospect St.	Sault Ste. Marie, Mich.	A 462	Tucker, Peter F.	7620 W. Morrow Circle	Dearborn, Mich.
A 511	Sommers, Carl	620 Frankfort Ave.	Cleveland, O.	A 406	Turner, George A.	418 Lyndon St.	Ashtabula, O.
A 798	Sommers, Howard F.	5026 Ottawa River Rd.	Toledo, Ohio	A 619	Turner, Lawrence C.	1800 Terminal Tower	Cleveland, O.
A 469	Sorensen, S.	2222 W. 6th St.	Duluth, Minn.	A 471	Tyrrell, A. R.	150 Washington Highway	Snyder, N. Y.
A 754	Spaulding, Harry W.	184 So. Elmwood Ave.	Buffalo 1, N. Y.	A 769	Vadas, Louis	RFD No. 1, Box 444	E. Toledo, Ohio
A 758	Stacko, Charles	4447 Asbury	Toledo 12, O.	A 821	Veder, Anthony	Westplein 11	Rotterdam, Holland
A 536	Steel, Robert P.	West 115th St.	Cleveland, O.	A 438	Vettel, Edwin M.	378 W. 35th St.	Ashtabula, O.
A 702	Stephens, D. C.	8315 Paxton Ave.	Chicago 17, Ill.	A 476	Vettel, Louis W.	3515 Lake St.	Ashtabula, O.
A 718	Stevens, Lewis E.	Hill Ave., RFD No. 3, Box 303A	Toledo 7, O.	A 647	Vutech R. W.	918 177th Place	Hammond, Ind.
A 458	Stewart, George J.	P. O. Box 487	Ashtabula, O.	A 558	Wagner, Arthur A.	1742 Bancroft St.	Toledo, O.
A 276	Stith, E. W.	169 Bidwell Pkwy.	Buffalo, N. Y.	A 667	Walker, Jr. C. G.	1032 Pennfield Rd.	Cleveland Hts., O.
A 674	Stith, Frank H.	44 Blossom Heath	Buffalo 21, N. Y.	A 742	Walsh, William S.	7212 Osborn St.	Hammond, Ind.
A 704	Strong, Harry B.	2275 Whitney Ave.	Toledo, O.	A 776	Ward, Sidney J.	7137 Yates Ave.	Chicago 49, Ill.
A 475	Struebing, Edward H.	50 Simson St.	Tonawanda, N. Y.	A 783	Warner, Donald E.	4324 Ivy St.	East Chicago, Ind.
A 649	Sullivan, D. W.	4398 W. 61st St.	Cleveland 2, O.	A 441	Waterstrat, William	64 Long Ave.	Tonawanda, N. Y.
A 683	Sullivan, Frank J. Jr.	1813 Terminal Tower	Cleveland, O.	A 746	Wechter, Frank E.	110 Center St.	Huron, O.
A 731	Swanson, Carl R.	426 Twelfth Ave. E.	Duluth, Minn.	A 676	Wehle, Louis	100 National Ave.	Rochester, N. Y.
A 796	Swanson, Milbourn	905 Edison Bldg.	Toledo, Ohio	A 518	Weisbeck, Geo. E.	184 Deerhurst Blvd.	Kenmore, N. Y.
A 752	Swanson, W. H.	814 W. Northwest St.	Crown Point, Ind.	A 640	Wenberg, Walter A.	1710 Minnesota Ave.	Duluth, Minn.
A 831	Swanstrom, Kingsley	2626 Jefferson St.	Duluth, Minn.	A 827	Wendeil, Howard	257 Elmwood Ave.	Buffalo, N. Y.
A 519	Swezey, Geo. E.	32 Berkley Place	Buffalo, N. Y.	A 698	Wetterman, Alvin	324 Fulton St.	Grand Haven, Mich.
A 699	Talbot, A. J.	1334 Seventh St.	Lorain, O.	A 658	Weygandt, Elmer C.	23785 Hedgewood	Rocky River, 16, O.
A 697	Talbot, Thomas S.	2194 W. 98th St.	Cleveland, O.	A 457	Weyls, Winifred	1852 Wellesley Dr.	Toledo, O.
A 806	Teporten, Earl A.	1802 Ogden Ave.	Superior, Wisc.	A 358	Whelan, Joseph T.	% Springfield Boiler Co., Springfield, Ill.	U. S. Maritime Commission
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A 399	Tewksbury, Michael	2101 Terminal Tower	Cleveland, O.	A 765	White, Fred R.	189 Shelburne Rd.	Shaker Heights, Ohio
A 226	Thacher, Addison Q.	901 West Woodruff St.	Toledo, O.	A 799	White, Norman	2569 Glendale Ave.	Toledo 14, Ohio
A 642	Thibideau, Frank J.	Rt. 2, Box 939	Duluth, Minn.	A 812	Wick, John N.	1921 John Ave.	Superior, Wisconsin
A 544	Thompson, Carl J.	502 E. 7th St.	Duluth, Minn.	A 246	Williams, Dan F.	11305 Clifton Blvd.	Cleveland 2, O.
A 100	Thompson, H. H.	R. F. D. No. 6, Box 363	Duluth, Minn.	A 820	Wolfe, John E.	7917 Exchange Ave.	Chicago, Ill.
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Brothers:

We, your Obituary Committee, regretfully submit the following names  
of members who have died during 1951:

Joseph M. Green  
D. A. Kendall  
H. A. Murphy  
L. J. Lavelly  
Fred Brown

John D. Green  
John C. Broadwell  
J. N. Rolfson  
Fred W. Huntman  
Howard J. Debo

James Healy  
Wallace A. Strachan  
Chas. A. Anderson  
John Collingham (Canada)

Twilight and evening bell,  
And after that the dark;  
And may there be no sadness of farewell  
When they embark.

For though from out our bourne  
of time and place

The flood may bear them far,  
We hope they saw their Pilot  
face to face

When they have crossed the bar.

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Walter J. Filteau, Chairman  
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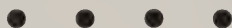
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## GENERAL DIMENSIONS OF LAKE VESSELS

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Name	Built of	Ton- nage	Capac- ity	DIMENSIONS			Con- struc- tion	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Acadian (Can.)	Steel	1686	2500	250.0	43.0	18.0	Arch		6	24	2 1050	2 1050	2 400				1913	Canada Steamship Lines Ltd. Montreal, Quebec
Adams, Cuyler	Steel	5057	8400	474.0	52.0	29.0	Arch	Side	28	12	6 1900	6 2000	8 1900	8 2600			1904	Tomlinson Fleet Cleveland, Ohio
Adriatic	Steel	4658	7300	420	52	28	Arch	Side	23	12	5 2000	6 1600	6 1600	6 2100			1907	Interlake S. S. Co. Cleveland, Ohio
Affleck, B. F.	Steel	7964	13500	587.9	60.2	32	Arch	Side	18	24	6 4750	6 4000	6 4750				1927	Pittsburgh Steamship Div. U.S.S.Co., Cleveland, Ohio
Algocen (Can.)	Steel	6893	9800	504	54	30	Arch	Side	30	12	7 2450	8 2450	8 2450	7 2450			1909	Algoma Central S. S. Line Sault Ste. Marie, Ont.
Algorail (Can.)	Steel	3495	5500	346	48	28			10	24	3 1650	2 1100	2 1100	3 1650			1901	Algoma Central S. S. Line Sault Ste. Marie, Ont.
Algosoo (Can.)	Steel	3429	5600	346	48	28			12	24	4 1900	4 1800	4 1900				1901	Algoma Central S. S. Line Sault Ste. Marie, Ont.
Algosteel (Can.)	Steel	6117	8500	480	52	30	Arch	Side	28	12	10 2900	9 2800	9 2800				1908	Algoma Central S. S. Line Sault Ste. Marie, Ont.
Algoway (Can.)	Steel	3785	5600	365	50	28	Arch		18	12	5 1800	8 2000	5 1800				1903	Algoma Central S. S. Line Sault Ste. Marie, Ont.
Allen, Martha E. (M.V.)	Steel	2935		334	51.2	18.6		15			TAN	KER	- 35,	714 B	bls.		1928	Lake Tankers Corp. East Chicago, Ill.
Allison (Can.)	Steel	1926	2600	253	43	20			7		4 1400	3 1200					1927	The Colonial S. S. Co. Port Colborne, Ont.
Alpena	Steel	2886	5500	356	47.2	26		Side	18	12	6 2100	6 2200	6 1200	SE	LF	UNLOA	DER 1909	Wyandotte Transp. Co. Wyandotte, Mich.
Altadoc (Can.)	Steel	4280	6300	406	48	28	Arch	Side	12	24	3 1400	3 1700	3 1700	3 1500			1896	Paterson S. S. Ltd. Fort William, Ont.
Amazon	Steel	3702	5700	376	46.2	26	Arch	Side	11	24	4 2000	4 2000	3 1700				1897	U. S. Maritime Commission
American	Steel	1408	2140	204.4	42.1	20					SA	ND	SUC	KER			1921	Marine Transit Co. Chicago, Ill.
Amsterdam Socony (M.V.)	Steel	1199	2321	252.9	40.1			7			TAN	KER	- 16,	201 B	bls.		1924	Socony Vacuum Oil Co., Inc. New York, N. Y.
Anderson, Arthur M.	Steel		19700	620	70	36	Arch	Side	19	24	6 6800	7 5900	6 7000				1952	Pittsburgh Steamship Civ., U.S.S. Co., Cleveland, Ohio
Andrew, Mathew	Steel	9144	13600	602.8	64.2	33	Arch	Side	36	12	9 3800	9 3200	9 3200	9 3400			1922	M. A. Hanna Co. Cleveland, Ohio
Angeline	Steel	4690	6800	414	50	28	Arch	Side	12	24	4 2000	3 1800	3 1800	2 1200			1899	Presque Isle Transp. Co. Cleveland, Ohio



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## GENERAL DIMENSIONS OF LAKE VESSELS

77

Name	Built of	Ton- nage	Capac- ity	DIMENSIONS			Con- struc- tion	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager	
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6			
Arcturus	Steel	6702	9600	520.5	54	31	Arch	Side	16	24	4 2600	4 2200	4 2200	4 2600			1936	Interlake S. S. Co. Cleveland, Ohio	
Armstrong, Frank	Steel	9057	14850	603.8	60.2	35	Arch	Side	18	24	4 3950	5 3300	5 3400	4 4200			1943	Interlake S. S. Co. Cleveland, Ohio	
Ashcroft (Can.)	Steel	7726	11500	546	60	32	Arch	Side	21	18	6 3400	5 2600	5 2500	5 3000			1924	Branch Lines, Ltd. Montreal, Que.	
Ashley, J. S.	Steel	6993	9000	509.7	54.2	30	Arch	Side	27	12	SEL 1600	F - U 1400	NLOA 1300	DER 1250	1150	2300	1909	Hutchinson & Co. Cleveland, Ohio	
Aspen	Steel	277	300	118	25	12											1906	United States Coast Guard	
Augustus, A. A.	Steel	6390	9500	504	54	30	Arch	Side	30	12	7 2700	8 2000	8 2000	7 2300			1909	Hutchinson & Co. Cleveland, Ohio	
Avery, Sewell	Steel	8758	15100	604.8	60.2	35	Arch	Side	18	24	4 4000	5 3350	5 3450	4 4300			1943	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio	
Ayres, J. Burton	Steel	8758	15100	604.8	60.2	35	Arch	Side	18	24	4 4000	5 3350	5 3450	4 4300			1943	Great Lakes S. S. Co. Cleveland, Ohio	
Baker, Geo. F.	Steel	7658	12100	587.1	58.3	32	Arch	Side	18	24	6 4300	6 3500	6 4300				1907	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio	
Ball Brothers	Steel	5733	9100	480	52	30	Arch	Side	28	12	7 2300	6 2000	6 2000	9 2800			1905	Tomlinson Fleet, The Cleveland, Ohio	
Barnes, Andrew M. (M.V.)	Steel	1040	1900	242.6	36.1	12.9			7		270	Tons	Per Hatch				1921	Erie & St. Lawrence Corp. New York, N. Y.	
Barnes, Julius H. (M.V.)	Steel	1623	3200	281.3	42	21	Arch		5								1940	Erie & St. Lawrence Corp. New York, N. Y.	
Barnes, Richard J. (M.V.)	Steel	1040	1900	242.6	36.1	21			7		270	Tons	Per Hatch				1921	Erie & St. Lawrence Corp. New York, N. Y.	
Barrie (Can.)	Steel	1824	2500	252	43	19.0	Arch		6	24	3 1200	3 1300					1925	Canada S. S. Lines, Ltd. Montreal, Que.	
Battleford (Can.)	Steel	2357	5700	248.1	43.6	25	Arch		4	37'6"	1600	2300	1800	Pack	age	F	reight		Canada S. S. Lines, Ltd. Montreal, Que.
Bayanna (Can.)	Steel	1642	1800	247.7	42.6	17			4					Self	Unlo	ader		1896	Bayswater Shipping, Ltd. Brockville, Ont.
Bayfax (Can.)	Steel	1126	1500	206	37	15.6			2		750	750		Self	Unlo	ader		1912	Coal Carriers Corp., Ltd. Brockville, Ont.
Bayshell (M.V.) (Can.)	Steel	892	Oil	199.7	13.8	14.6					TAN	KER	- 11	500 B	bls.		1930	Shell Canadian Tanker Ltd. Toronto, Ontario	
Bay State		1245		265	36	22.6					Bulk	Sand					1890	Sound Gravel Co. Chicago, Ill.	



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# HANNA

"OUR DUTY—TO PATRONIZE THE ADVERTISERS"



## GENERAL DIMENSIONS OF LAKE VESSELS

79

Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lght.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Bayton (Can.)	Steel	4176	7200	416	50	28			13	24	3 2000	3 1600	3 1600	3 2000			1904	Colonial S. S., Ltd. Port Colborne, Ont.
Bay View		1399		265	38	24					Bulk	Sand					1891	Central Dredging Co. Chicago, Ill.
Beaumont Parks	Steel	4154		373.0	52.0	20.4		7			TAN	KER	- 43,	788 B	bls.		1912	Standard Oil Company (Ind.) Chicago, Ill.
Beaverton (Can.)	Steel	2012	3000	249	42.6	23.6			5	24	Package	Freight					1903	Canada S. S. Lines, Ltd. Montreal, Quebec
Belleville (Can.)	Steel	1515		222	34	25.6											1873	Tankers Nav. Co., Ltd. Quebec, Quebec
Bennett, Viscount (Can.)	Steel	6221	8500	480	52	30	Arch		28	12	7 2400	7 1800	7 1700	7 2600			1903	Colonial S. S., Ltd. Port Colborne, Ont.
Bergamo (Norw. S. S.)	Steel	1375		258	42				4		Package	Freight					1939	Swedish American Line Montreal 2, Quebec
Berwind, Edw. J.	Steel	8318	12800	595.6	62	32	Arch	Side	18	24	4 3300	5 3200	5 3200	4 3100			1924	M. A. Hanna Co. Cleveland, Ohio
Bethlehem	Steel	8271	12400	580	60	32	Arch	Side	34	12	12 4350	12 3950	11 4100				1917	Bethlehem Transp. Corp. Cleveland, Ohio
Billings, Frank	Steel	5494	8500	444	56.2	30	Arch	Side	25	12	8 2800	9 2500	8 3200				1910	Hutchinson & Co. Cleveland, Ohio
Birchton (Can.)	Steel	1732	2700	250	43	17.6	Arch		5	24	1 900	2 900	2 900				1924	Gulf & Lake Nav. Co. Montreal, Quebec
Block, Joseph	Steel	6816	10800	556.2	56.4	31	Arch	Side	34	12	8 3100	8 2200	9 2200	9 3300			1907	Inland Steel Co. Cleveland, Ohio
Block, L. E.	Steel	9092	13500	604.2	64.2	33	Arch	Side	18	24	6 4500	6 4500	6 4500				1927	Inland Steel Co. Cleveland, Ohio
Block, P. D.	Steel	8652	15000	658.3	60.2	32	Arch	Side	21	24	6 4000	9 7000	6 4000	Rebuilt			1925 1951	Inland Steel Co. Cleveland, Ohio
Blue Comet (M.V.)	Steel	943		260	40	14		7			TAN	KER	- 13,	000 B	bls.		1923	Socony Vacuum Oil Co. New York, N. Y.
Blue Cross (Can.)	Steel	1786		255	43.7	19.11	Arch	Side			TAN	KER	- 21,	000 B	bls.	(Crude)	1930	Shell Canadian Tankers, Ltd. Toronto, Ont.
Blue River (Can.) (M.V.)	Steel	1770	3400	255.1	43.7	19	Arch	Side	4		1 850	1 850	1 850	1 850			1930	Upper Lakes & St. Lawrence Transp. Co., Ltd., Toronto, Ont.
Boardman, John W.	Steel	3815	6000	340.6	55.1	28	Arch	Side	6		Bulk	Cement					1923	Huron Transp. Co. Detroit, Mich.

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## GENERAL DIMENSIONS OF LAKE VESSELS

81

Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Boland, John J.	Steel	5950	8500	480	52	30	Arch	Side	28	12	10 2900	9 2600	9 3000				1905	Boland & Cornelius Buffalo, N. Y.
Boston Socony (M.V.)	Steel	1199	2321	252.9	40.1			7			TAN	KER	- 16,	419 B	bls.		1924	Socony Vacuum Oil Co. Inc. New York, N. Y.
Bradley, Carl D.	Steel	10028	14000	623.2	65.2	33	Self Arch	Unlo Side	17	24	4 3000	3 3000	3 2000	3 3000	4 3000		1927	Michigan Limestone Div. U.S.S. Co., Rogers City, Mich.
Brampton (Can.)	Steel	1926	2600	253	43	20					4 1400	3 1200					1927	Colonial S. S. Co. Pt. Colborne, Ont.
Brazil	Steel	2166		276	40.2	24.4					Sand	Suck	er				1890	Illinois Ship & Dredge Co. Chicago, Ill.
Bricoldoc (Can.)	Steel	4364	6600	404	50	27	Arch		21	12	2 1200	4 1000	4 1900	4 1000	4 1000	3 1400	1902	Paterson S. S., Ltd. Fort William, Ont.
Britamette (Can.)	Steel	243	500	130	20	8.6					TAN	KER	- 2,	399 B	bls.		1931	British American Oil Co., Ltd. 26 Front St., Toronto, Ont.
Britamlube (Can.)	Steel	1931	2500	250	43	18				Tanker	21,504	Bb's.					1932	British American Oil Co., Ltd. 26 Front St., Toronto, Ont.
Britamoco (Can.)	Steel	1932	2500	250	43	18				Tanker	21,504	Bb's.					1931	British American Oil Co., Ltd. 26 Front St., Toronto, Ont.
Britamoil (Can.)	Steel	1931	2500	250	43	18				Tanker	21,504	Bbls.					1931	British American Oil Co., Ltd. 26 Front St., Toronto, Ont.
Britamolene (Can.)	Steel	1931	2500	250	43	18				Tanker	21,504	Bbls.					1931	British American Oil Co., Ltd. 26 Front St., Toronto, Ont.
Brown Beaver (Can.)	Steel	1892	2900	253	43.8	20.6	Arch		6	24	1000	1000	900				1929	Upper Lakes & St. Lawrence Transp.Co., Ltd. Toronto, Ont.
Brown, Fayette	Steel	6377	9500	504	54	30	Arch	Side	30	12	7 2700	8 2000	8 2000	7 2500			1910	Interlake S. S. Co. Cleveland, Ohio
Brown, Frank H. (Can.)	Steel	1902	2600	252	42.4	20.6	Arch	Side	7	24	2 800	3 1200	2 600				1924	Colonial S. S., Ltd. Port Colborne, Ont.
Brown, Harvey H.	Steel	6634	10000	532	58.3	31	Arch	Side	30	12	6 2500	8 2500	8 2500	8 2500			1908	Interlake S. S. Co. Cleveland, Ohio
Brown, J. J. H.	Steel	5069	7800	432	52	28	Arch		24	12	6 1950	6 1900	6 1950	6 2000			1908	Brown & Co. Buffalo, N. Y.
Browning, L. D.	Steel	4349	6600	413.1	48	28	Arch		11	24	1 6600						1896	Nicholson Universal Steamship Co., Inc., Detroit, Mich.
Browning, Troy H.	Steel	9115	14000	602	71.6	3.5	Arch	Side	15	24	5 5050	5 4200	5 4750				1946	Nicholson Universal Steamship Co., Inc., Detroit, Mich.
Brush (Norw. S. S.)	Steel	1323		258	42				4		Pack age Fr eight						1939	Swedish American Line Montreal 2, Quebec



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## GENERAL DIMENSIONS OF LAKE VESSELS

83

Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Buckeye	Steel	4626	7000	412.9	51.5	28	Arch		3		Self 2100	Unloader 2600	Freight 2300				1900	Columbia Transp. Co. Cleveland, Ohio
Buckeye State	Steel	1473	2320	246.3	43.5	20			7								1930	Federal Motorship Corp. New York, N. Y.
Budd, Ralph (Can.)	Steel	4537	4500	382	50	30			10	24	Pack	age	F	Freight			1905	Upper Lakes & St. Lawrence Transp. Co., Ltd., Toronto, Ont.
Buffington, Eugene J.	Steel	7528	12100	580	58	32	Arch	Side	35	12	12 4300	12 3500	11 4300				1909	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Bulkarrier (Can.)	Steel	2376	2500	253	43.2	25	Cement	Carrier	9		3 800	3 850	3 850				1929	Canada Cement Transport Co Montreal, Quebec
Bunsen, R. W. E.	Steel	4473	7400	439	50.2	29.6	Arch	Side	14	24	14 7400						1900	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Burke, Jos. P. (Can.)	Steel	1926	2900	253	43.4	20	Arch		6	24	3 1500	3 1400					1929	Colonial S. S., Ltd. Port Colborne, Ont.
Burlington Socony (M.V.)	Steel	1199		252.9	40.1			7			TAN	KER	- 13	500 B	ols.		1924	Socony Vacuum Oil Co. New York, N. Y.
Burlington (Can.)	Steel	4909	7300	433.2	50.2	28.2	Arch		13	24	3 1900	4 2000	4 2000	2 1400			1899	Canada S. S. Lines, Ltd. Montreal, Quebec
Byers, A. M.	Steel	6364	9500	504	54	30	Arch	Side	30	12	7 2700	8 2000	8 2000	7 2800			1910	The Reiss S. S. Co. Sheboygan, Wisc.
Cadillac	Steel	9057	14850	603.8	50.2	35	Arch	Side	18	24	4 3950	5 3300	5 3400	4 4200			1943	Cleveland Cliffs Iron Co. Cleveland, Ohio
Cadwell, C. W. (Can.)	Steel	564	1100	155	37	10					Self	Unloader					1911	Tees Transit Co. Hamilton, Ont.
Calcite	Steel	3996	5500	416	54.2	29	Arch	Side	Self 20	Unloader 12	3 1000	10 2600	7 1900				1912	Rogers City, Mich.
Callaway, Cason J.	Steel		19700	620	70	36	Arch	Side	19	24	6 6300	7 5900	6 7000					Pittsburgh Steamship Div., U.S.S. Co., Cleveland, Ohio
Calgarian (Can.)	Steel	2272	3000	250	43.1	26.6			5	24		Pack	age	F	Freight		1905	Canada S. S. Lines, Ltd. Montreal, Quebec
Calumet	Steel	4641	7300	420	52.2	28	Arch	Side	23	12	5 2000	6 1500	6 1600	6 2100			1907	Interlake S. S. Co. Cleveland, Ohio
Cambria	Steel	6287	9800	504	54.2	30	Arch	Side	16	24	4 2600	4 2400	4 2300	4 2500			1910	Bethlehem Transp. Corp. Cleveland, Ohio
Campbell, J. A.	Steel	7316	10200	525	58.1	31	Arch	Side	32	12	10 3600	12 3000	10 3600				1913	Interlake S. S. Co. Cleveland, Ohio
Canadian (Can.)	Steel	2214	3000	248	42.9	26			6	24		Pack	age	F	Freight		1907	Canada S. S. Lines, Ltd Montreal, Quebec

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## GENERAL DIMENSIONS OF LAKE VESSELS

85

Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Canadoc (Can.)	Steel	4581	6800	416	50	28	Arch	Side	22	12	5 1700	6 1600	6 1500	5 2000			1899	Paterson S. S., Ltd. Port William, Ont.
Canopus	Steel	4978	8200	462	50	28	Arch			Auto mobile Carrier			D. K.				1905	Nicholson Transit Co. River Rouge, Mich.
Carl, George M. (Can.)	Steel	1928	3000	753	43.4	20	Arch		6	24	3 1500	3 1500					1928	Colonial Steamships Ltd., Port Colborne, Ont.
Carmelfjell (Norw.)	Steel			258	42	22											1936	Great Lake Transatlantic, Inc. Chicago, Ill.
Carport	Steel	99		63.7	27.6	7.6												Cargo Carriers, Inc. Cleveland, Ohio
Carrol, Weston M.	Steel	1069		200	38	17						Sand	Sucker				1901	Buffalo Gravel Corp. Buffalo, N. Y.
Carrollton	Steel	1635	2400	247.5	43.2	21.6	Arch	Side	2	12			Pig Iron & Scrap				1904	Saginaw Dock & Terminal Co. Cleveland, Ohio
Cartierdoc (Can.)	Steel	1919	2800	253	43	20	Arch		7	24	3 1300	4 1500					1928	Paterson S. S., Ltd. Port William, Ont.
Casco (Can.)	Steel	1831	2500	253	43.2	20.1	Arch		7	24	2 700	3 1100	2 700				1927	Lakes & St. Lawrence Nav. Co., Ltd., Montreal, Quebec
Caulkins, Ralph S.	Steel	4046	6800	414	50	28	Arch	Side	12	24	3 1700	3 1700	3 1700	3 1700			1902	Waterways Nav. Co. Detroit, Mich.
Cedarbranch (Can.)	Steel	1700		248.3	40.10	18					TAN	KER	- 18, 410	Bbls.			1903	Branch Lines, Ltd. Sorel, Quebec
Cedarton (Can.)	Steel	1732	2700	250	43	17.6	Arch		5	24	1 900	2 900	2 900				1923	Gulf & Lake Nav. Co. Montreal, Quebec
Cement Karrier (Can.)	Steel	1971	3000	253	43.2	20			12			Cement	Carrier				1930	Canada Cement Transport Co. Montreal, Quebec
Chacornac	Steel	3586	6300	380	50	23	Arch	Side	11	24	3 1800	3 1700	3 1700	2 1100			1902	Cleveland Cliffs Iron Co. Cleveland, Ohio
Challenger, M. V.	Steel	70	50	64.10	25	10							Passenger				1947	Neuman Boat Line, Inc. Sandusky, Ohio
Champlain	Steel	8758	14850	604.8	60.2	35	Arch	Side	18	24	4 3950	5 3300	5 3400	4 4200			1943	Cleveland Cliffs Iron Co. Cleveland, Ohio
(M.V.) Chicago Tribune (Can.)	Steel	2960	3000	253	43.6	23.6	Arch		4			Paper Carrier					1930	Que. & Ont. Transp. Co., Ltd. Montreal, Quebec
Chrisholm, Alex D.	Steel	6939	10200	530	56.2	31	Arch	Side	31	12	10 3600	11 3200	10 3400				1906	Interlake S. S. Co., Cleveland, Ohio
City of Hamilton (Can.)	Steel	1665	2000	230	38	23			3	24				Package Freight			1927	Canada S. S. Lines, Ltd. Montreal, Quebec



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*Cleveland, Ohio*

## GENERAL DIMENSIONS OF LAKE VESSELS

87

Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
City of Kingston (Can.)	Steel	1690	2000	230	38	23			3	24			Pack	age	F	reight	1926	Canada S. S. Lines, Ltd. Montreal, Quebec
City of Montreal (Can.)	Steel	1665	2000	230	38	23			3	24			Pack	age	F	reight	1927	Canada S. S. Lines, Ltd. Montreal, Quebec
City of Toronto (Can.)	Steel	1688	2000	230	38	23			3	24			Pack	age	F	reight	1926	Canada S. S. Lines, Ltd. Montreal, Quebec
City of Windsor (Can.)	Steel	1905	2000	242	40	24			3	24			Pack	age	F	reight	1929	Canada S. S. Lines, Ltd. Montreal, Quebec
Clarke, E. A. S.	Steel	5806	10200	540	56	30	Arch	Side	32	12	10 3700	12 2800	10 3700				1907	Interlake S. S. Co. Cleveland, Ohio
Clarke, Philip R.	Steel		19700	620	70	36	Arch	Side	19	24	6 6800	7 5900	6 7000					Pittsburgh Steamship Div., U.S.S. Co., Cleveland, Ohio
Clayton (Can.)	Steel	1925	3000	253	43.4	20	Arch		6		3 1400	3 1600					1929	Colonial S. S. Co. Port Colborne, Ont.
Cleets, Geo. S. (Can.)	Steel	2570	2850	248.2	42.6	25.6	Arch		6		1 650	2 1050	3 1200	Self U	nloader	r	1912	Bays Water Shipping, Ltd. Brockville, Ont.
Clement, Norm. P. (Can.)	Steel	1729	2400	253	43.1	20	Arch		7	24	3 1100	4 1300					1924	Upper Lakes & St Lawrence Transp. Co., Ltd., Toronto, Ont.
Clemson, D. M.	Steel	8364	13600	580	60	32	Arch	Side	35	12	12 4800	12 4150	11 4650				1917	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Clevelandler (M.V.)	Steel	1040	2500	250.6	42.2	18.9			3		1 800	1 900	1 800				1923	Cleveland Tankers, Inc. Cleveland, Ohio
Cliffs Victory	Steel		12000	620.3	62	38		Side	16	24	Four	Comp	artments				1945	Cleveland-Cliffs Iron Co. Cleveland, Ohio
Clyde, Wm. G.	Steel	7918	13600	587.2	60.2	32	Arch	Side	18	24	6 4800	6 4150	6 4630				1929	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Clymer, Irving L.	Steel	7203	10060	530	60	32	Self Arch	Unloader	30	12	8 3000	6 1800	6 1800	10 3400			1917	Michigan Limestone Div., U.S.S. Co., Rogers City, Mich.
Coalfax (Can.)	Steel	2482	2650	253	43.2	25			6		2 775	2 1000	2 875		Un	loader	1927	Coal Carriers Corp., Ltd. Brockville, Ont.
Coalhaven (Can.)	Steel	2362	2400	253	43.2	25			6		2 750	2 850	2 800		Self Un	loader	1928	Canada S. S. Lines, Ltd. Montreal, Quebec
Coastal Carrier (Can.)	Steel	1040	1900	242.6	36.1	12.9					TAN	KER					1921	Coastwise Carriers, Ltd. Montreal, Que.
Coastal Creek	Steel	2412	3000	250	42.9	26.6	Arch				TAN	KER					1927	Coastwise Carriers, Ltd. Montreal, Que.
Cole, Thomas F.	Steel	7700	12300	580	58	32	Arch	Side	34	12	11 4300	12 3800	11 4200				1907	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio



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## GENERAL DIMENSIONS OF LAKE VESSELS

89

Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lght.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Collier (Can.)	Steel	1858	2400	250	43	20	Arch	Side	2		1 1200	1 1200		Self	Unlo	ader	1924	Canada S. S. Lines, Ltd. Montreal, Quebec
Collingwood (Can.)	Steel	4529	6300	386	50	28	Arch		11	24	2 1300	3 1500	3 1600	3 1900			1908	Canada S. S. Lines, Ltd. Montreal, Quebec
Collins, E. C.	Steel	4132	6700	420	50	28	Arch	Side	12	24	3 1600	3 1700	3 1700	3 1700			1904	Kinsman Transit Co. Cleveland, Ohio
Colonel	Steel	3597	5800	356	50.2	28	Arch		10	24	3 1800	2 1100	2 1100	3 1800			1901	Cleveland Cliffs Iron Co. Cleveland, Ohio
Comet	Steel	2987		322	43	26		8			TAN	KER	- 35,	890 B	bls.		1913	Cleveland Tankers, Inc. Cleveland, Ohio
Commodore Jarvis	Wood	287		116	27	6					Sand	Suck	er				1906	Frank F. Fix Buffalo, N. Y.
Commuter	Steel	67	50	64.10	24	9.6						Passe	nger				1945	Neuman Boat Line, Inc. Sandusky, Ohio
Coniscliffe Hall (Can.)	Steel	1900	2700	253	43.6	20.6	Arch		6	24	3 1425	3 1325					1928	Hall Corp. of Canada Montreal, Quebec
Conneaut	Steel	4749	6000	416	56	30	Arch	Side	21	12	4 1000	8 2000	9 3000	Self	Unlo	ader	1916	Wyandotte Transp. Co. Wyandotte, Mich.
Consumers Power	Steel	6391	9000	511.1	56.2	30	Arch	Self Side	Unlo 26	ader 12	4 1775	4 1250	4 1250	6 2175	4 1250	4 1300	1910	Bolans & Cornelius Buffalo, N. Y.
Conway, Carl C.	Steel	6530	10200	532	56.2	31	Arch	Side	32	12	10 3700	12 2800	10 3700				1907	M. A. Hanna Co. Cleveland, Ohio
Corey, Wm. E.	Steel	6485	10700	555.5	56.2	31	Arch	Side	17	24	9 5450	8 5250					1905	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Cornelius, Adam E.	Steel	8004	12000	586.3	60.2	32	Self Arch	Unlo ader Side	18	24	2 1/2 1914	3 2164	2 1413	2 1409	3 2118	4 1430	1927	Boland & Cornelius Buffalo, N. Y.
Cornell	Steel	4449	7000	454	50.2	28.6	Arch	Side	13	24	9 4850	4 2150					1900	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Coulby, Harry	Steel	9467	14000	615.2	65.2	33	Arch	Side	18	24	4 3400	5 3600	5 3600	4 3400			1927	Interlake S. S. Co. Cleveland, Ohio
Coverdale (Can.)	Steel	11,997	18100 L.T.	640 O.L.	67	35	Arch	Side	18	24	1 4200	2 5300	3 5300	4 4200			1949	Canada Steamship Lines Limited
Cowar, Wm. P.	Steel	5429		420.0	55.0	28		9			TAN	KER	- 63,	170 B	bls.		1918	Standard Oil Co. (Indiana) Chicago, Ill.
Cowle, John B.	Steel	6614	10600	525	58	31	Arch	Side	31	12	8 2700	8 2600	7 2600	8 2700			1910	Great Lakes S. S. Co. Cleveland, Ohio
Crapo, S. T.	Steel	4769	7500	392.5	60.3	29					Bulk	Cement					1927	Huron Transp. Co. Detroit, Mich.

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## GENERAL DIMENSIONS OF LAKE VESSELS

91

Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lght.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Crawford, Geo. G.	Steel	7699	12700	585	60.2	32	Arch	Side	18	24	4550	3650	4500				1907	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Crawford, W. D.	Steel	6385	9500	504	54	30	Arch	Side	16	24	2900	1850	1850	2900			1914	M. A. Hanna Co. Cleveland, Ohio
Crete	Steel	6030	8500	480	52	30	Arch	Side	28	12	2400	1800	1700	2600			1907	Interlake S. S. Co. Cleveland, Ohio
Croft, Harry W.	Steel	6223		504	58	30	Arch.	D		24	3700	2900	3400				1908	Interlake S. S. Co. Cleveland, O.
Cyclo Warrior (Can.)	Steel	2500		250	43.3	24.2								TAN KER	- 28,000 B bls.		1930	McColl-Frontenac Oil Co., Ltd. Toronto, Ontario
Dahlke, H.	Steel	620		152	34.6	10.6						Sand	Sucker				1907	First National Bank Detroit, Mich.
Dalton, Henry G.	Steel	7810	12000	580	60	32	Arch	Side	33	12	4500	3300	4200				1916	Interlake S. S. Co. Cleveland, Ohio
Damia (Can.)	Steel	1926	2900	253	43.2	20	Arch		6	24	1400	1500					1929	Inland Lines, Ltd. Montreal, Quebec
Dani's, W. H. (Can.)	Steel	1772	2400	253	43.1	20	Arch		7	24	1100	1300					1923	Upper Lakes & St. Lawrence Transp. Co., Ltd., Toronto, Ont.
Davidson, James	Steel	8349	13400	587.1	60	32	Arch	Side	34	12	2400	2300	2200	2300	10	4200	1920	The Tomlinson Fleet Cleveland, Ohio
Davidson, James E.	Steel	6206	10100	504	54.2	30	Arch	Side	30	12	2600	2400	2400	2700			1905	Tomlinson Fleet Cleveland, Ohio
Davin, John W.	Steel	285	10000	504	54.2	30	Arch	Side	30	12	2500	2400	2500	2600			1907	Midland S. S. Line Cleveland, Ohio
Denmark	Steel	5448	8500	440	56	28	Arch		24	12	2300	2000	2000	2200			1909	Great Lakes S. S. Co. Cleveland, Ohio
Detroit Edison	Steel	4930	6900	475	52.2	28	Arch	Self Side	Unlo 13	ader 24	1000	1100	1600	1100	4	2100	1908	Boland & Cornelius Buffalo, N. Y.
Detroitier (M.V.)	Steel	1040	2500	250.6	42.2	18.9			3		1800	1900	1800				1923	Cleveland Tankers, Inc. Cleveland, Ohio
Diamond Alkali	Steel	8409	13000	580	60.1	32	Arch	Self Side	Unlo 32	ader 12	1800	2500	2300	2300	6	1800	1917	Boland & Cornelius Buffalo, N. Y.
Dick, Baxter (Can.)	Steel	473	500	159.3	28	10.2						Bulk	Sand				1900	National Sand & Material Co Ltd., Toronto, Ont.
Dick, Charles (Can.)	Steel	2015	2500	250	43	20						Sand	Sucker				1922	National Sand & Material Co., Ltd., Toronto, Ont.
Dickson, Wm. B.	Steel	7869	12400	587.5	58.2	32	Arch	Side	35	12	4400	3750	4250				1910	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio



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## GENERAL DIMENSIONS OF LAKE VESSELS

93

Name	Built at	Ton- nage	Capac- ity	DIMENSIONS			Con- struc- tion	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Dinkey, Alva C.	Steel	7702	12300	580	58	32	Arch	Side	35	12	12 4350	12 3750	11 4200				1909	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Donnacona (Can.)	Steel	8611	12600	604	59	32	Arch	Side	38	12	6 2400	4 1200	8 2400	4 1200	8 2400	8 3000	1914	Canada S. S. Lines, Ltd. Montreal, Quebec
Donnelly, Charles	Steel	3765	5500	398	45.6	28			10	24			Auto	Carrier			1898	Nicholson Transit Co. River Rouge, Mich.
Donner, Wm. H.	Steel	6311	9600	504	54	30	Arch	Side	16	24	4 2500	4 2400	4 2300	4 2400			1914	Bethlehem Transp. Corp. Cleveland, Ohio
Douglass, Edwin T.	Steel	1772	2400	253	43.1	20	Arch		7	24	3 1100	4 1300					1923	Upper Lake & St. Lawrence Transp. Co., Ltd., Toronto, Ont.
Dow Chemical	Steel	6612	9100	511.1	56.2	30	Arch	Self Side	Unlo 26	ader 12	2 1320	2 650	2 630	6 1875	7 2175	7 2450	1912	Boland & Cornelius Buffalo, N. Y.
Dunlap, Chas. E.	Steel	8262	13400	580	60.2	32	Arch	Side	34	12	6 2400	6 2300	6 2200	6 2300	10 4200		1920	The Tomlinson Fleet Cleveland, Ohio
Dunn, John Jr.	Steel	6160	10000	514	58	30	Arch	Side	15	24	4 2600	4 2600	3 2200	4 2600			1908	Great Lakes S. S. Co. Cleveland, Ohio
Durston, J. F.	Steel	4791	7800	140	52	28	Arch		24	12	6 2000	6½ 2000	5½ 1800	6 2000			1908	Great Lakes S. S. Co. Cleveland, Ohio
Eads, James B. (Can.)	Steel	3865	5300	400.6	42	18	Arch	Side	12	24	3 1400	4 1700	5 2200				1894	Upper Lakes & St. Lawrence Transp. Co., Ltd., Toronto, Ont.
Eagles Cliffe Hall (Can.)	Steel	1900	2750	253	43.4	20.6	Arch		6	24	1425	1325						Hall Corp. of Canada Montreal, Que.
Eastern Shell	Steel	1852		253	43.5	176					TAN	KER	- 22,000	B bls.			1932	Shell Canadian Tankers, Ltd. Toronto, Ontario
Easton (Can.)	Steel	1757	2800	250	41.8	18.6	Arch		6	24	2 1000	2 800	2 1000				1912	Iron Ore & Trans. Co., Ltd. Montreal, Que.
Eaton, Geo. L. (Can.)	Steel	1895	2700	253	43.4	20.6	Arch		6	24	3 1350	3 1350					1929	Hall Corp. of Canada Montreal, Quebec
Edenborn, Wm.	Steel	5186	8200	478	52	30	Arch	Side	14	24	14 8200						1900	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Edgewater (M.V.)	Steel	1819		288	43	20	Arch				TAN	KER	- 30,000	B bls.			1931	Cleveland Tankers, Inc. Cleveland, Ohio
Edmonton (Can.)	Steel	1983	3000	249.1	42.6	23.1		Pack age	Freight 6	24	2 1100	2 800	2 1100				1906	Canada S. S. Lines, Ltd. Montreal, Quebec
Eglinton Park (Can.)	Steel	2404	3600	251.5	43.9	20.4					TAN	KER					1944	Canadian Oil Co., Ltd. Montreal, Quebec
Elba	Steel	4671	7300	420	52	28	Arch	Side			STEEL	L	S	CRAP			1907	Boland & Cornelius Buffalo, N. Y.

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## GENERAL DIMENSIONS OF LAKE VESSELS

95

Name	Built of	Ton-nage	Capac-ity	DIMENSIONS			Con-struction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Elgin (Can.)	Steel	1906	2400	252	42.6	20.6	Arch		7	24	2 700	3 1200	2 500				1923	Canada S. S. Lines, Ltd. Montreal, Quebec
Ellwood, Isaac L.	Steel	5143	8200	478	52	30	Arch	Side	14	24	14 8200						1900	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Elmhurst (Can.)		1217		218	34.3	15.7			3		1 650	1 500	1 450					Canada S. S. Lines, Ltd. Montreal, Quebec
Elmhurst (Can.)	Steel	2301	3600	251.6		20						TAN	KER					Marine Industries, Ltd. Sorel, Quebec
Emery, John R.	Steel	422		133	32.8	9						Bulk	Sand				1905	W. L. Emery Detroit, Mich.
Empire State	Steel	1692	2800	254	43.5	20			7		7 Comp.		400	Tons	each		1929	Federal Motorship Corp. New York, N. Y.
Ericsson, John (Can.)	Steel	3650	5800	382	38	27	Arch		(whaleback) 11	24	3 1200	3 1700	3 1600	2 1300			1896	Upper Lakes & St. Lawrence Transp. Co., Ltd., Toronto, Ont.
Erie	Steel	290		124.6	28.4	7.4						Sand	Sucker				1906	Homer W. Mullinix Toledo, Ohio
Erie Isle, Motor Ship	Steel	Under 100	30	64.9	26	4.6	Passengers	& Autos									1951	Erie Isles Ferry Co., Middle Bass, Ohio
Erland (Swed. (M.V.))	Steel	1634		258	420				4			Package Freight					1943	Swedish American Lines Montreal, Quebec
Esso Delivery II (M.V.)	Steel	1199		252.9	40.1			7				TAN	KER	- 15,	476 B bls.		1924	Socony Vacuum Oil Co., Inc. New York, N. Y.
Evertton (Can.)	Steel	5765	9000	460	52.1	30	Arch	Side	13	24	13 9000						1908	Colonial S. S. Ltd. Port Colburn, Ont.
Ewig, Harry T.	Steel	3562	5500	352.9	48.2	28	Arch	Self	Unloader 3		1 1700	1 2200	1 1600				1902	Columbia Transp. Co. Cleveland, Ohio
Fairbairn, Sir Wm.	Steel	3807	5900	424.6	45.8	28	Arch	Side	13	24	4 1900	3 1300	3 1300	3 1400			1896	Buckeye S. S. Co. Cleveland, Ohio
Fairless, Benjamin F.	Steel	10294	17650	622.6	67.2	35	Arch	Side	18	24	6 6100	6 5250	6 6300				1942	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Fairmount (Can.)	Steel	1851	2600	252	43	19	Arch		6	24	2 900	2 700	2 1000				1923	Canada S. S. Lines, Ltd. Montreal, Quebec
Farr, Merton E.	Steel	8349	13400	587.1	60	32	Arch	Side	34	12	6 2400	6 2300	6 2200	6 2300	10 4200		1920	The Tomlinson Fleet Cleveland, Ohio
Farrandoc (M.V.) (Can.)	Steel	1695	3000	250	42.9	20	Arch		2		1600	1400					1926	Patterson S. S. Ltd. Fort William, Ont.
Farrell, James A.	Steel	7770	12900	580	58	32	Arch	Side	34	12	11 4550	12 4000	11 4350				1913	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio



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## GENERAL DIMENSIONS OF LAKE VESSELS

97

Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Favorite (Wrecker)	Steel	746		158	40	16											1919	Great Lakes Towing Co. Cleveland, Ohio
Fawcett, Donald E. (Can.)	Steel	1915	2600	252	42.4	20.6	Arch	Side	7	24	800	3 1200	2 600				1924	Colonial S. S., Ltd. Port Colborne, Ont.
Fellowcraft	Steel	1656	2500	247.3	41.2	18	Arch		2		2 2500						1903	Nicholson Transit Co. River Rouge, Mich.
Ferbert, A. H.	Steel	10294	17650	622.6	67	35	Arch	Side	18	24	6100	6 3250	6 6300				1942	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Eernie (Can.)	Steel	2419	3000	250	42.9	26.6			6	24	2	2	2 Package Freight				1929	Canada S. S. Lines, Ltd. Montreal, Quebec
Ferris, James E.	Steel	5404	8500	444	56.2	30	Arch	Side	25	12	8 2800	9 2500	8 3200				1910	Hutchinson & Co. Cleveland, Ohio
Fiertz, Robt. B.	Steel	1040	1900	242.6	36.1	12.9			7	24		7 Comp.		270 Tons each			1921	Erie & St. Lawrence Corp. Buffalo, N. Y.
Filbert, Wm. J.	Steel	7699	12800	585	60.2	32	Arch	Side	18	24	6 4600	6 3700	6 4500				1907	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Findlay, Harry L.	Steel	7014	10200	532	56	31	Arch	Side	32	12	8 2700	8 2400	8 2400	8 2700			1907	Kinsman Transit Co. Cleveland, Ohio
Fink, Geo. R.	Steel	6832	10200	532	56	31	Arch	Side	32	12	10 3700	12 2800	10 3700				1906	M. A. Hanna Co. Cleveland, Ohio
Finland	Steel	6495	10500	549	56.1	31	Arch	Side	17	24	4 2500	5 3000	4 2500	4 2500			1906	Great Lakes S. S. Co. Cleveland, Ohio
Firbranch (Can.)	Steel	2404	3600	251.5	43.9	20.4						TAN KER					1944	Branch Lines Limited Montreal, Que.
Fitzgerald, Wm. E.	Steel	4945	7500	420	52.2	28	Arch		23	12	11 3500	12 4000		Self	Unloader		1906	Gartland S.S.S. Co. Chicago, Ill.
Fontana	Steel	3887	4600	362.8	50.2	28	Arch	Self	Unloader	17	3 950	5 1100	6 1600	3 950			1904	Boland & Cornelius Buffalo, N. Y.
Foran, Clary (Can.)	Steel	1975	3000	252.7	43.3	17.9		B.B. 2	6		3 1400	3 1600					1929	Colonial S. S. Limited Port Colborne, Ont.
Ford, Benson (M.S.)	Steel	8626	11500	586	62	32	Arch	Side	18	24	6 4000	6 3700	6 3800				1924	Ford Motor Co. Dearborn, Mich.
Ford, Emory L.	Steel	7986	12500	580	60	32	Arch	Side	35	12	12 4350	12 3900	11 4250				1916	M. A. Hanna Co. Cleveland, Ohio
Ford, Henry II (M.S.)	Steel	8898	12150	590	62	32	Arch	Side	18	24	6 4250	6 3890	6 4010				1924	Ford Motor Co. Dearborn, Mich.
Fort Meigs	Wood		190	116.4	27.8	6.						Bulk Sand & Gravel						James Scanes Boat & Dock Toledo, Ohio



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## GENERAL DIMENSIONS OF LAKE VESSELS

99

Name	Built of	Ton-nage	Capac-ity	DIMENSIONS			Con-struction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Fort Town (Can.)	Steel	135.33		64.6	36	10	Weld'd			Ferry							1951	Prescott & Ogdensburg Ferry Co.Ltd.,King St., Prescott,Ont.
Fort Wildoc (Can.)	Steel	4542	6800	415	50	23	Arch		12	24	3 1900	3 1500	3 1500	3 1900			1901	Paterson S. S. Ltd. Fort William, Ont.
France, John A. (Can.)	Steel	1938	3000	253	43.4	20	Arch		6	24	3 1500	3 1500					1929	Colonfal S. S. Ltd. Port Colborne, Ont.
Franquelin (Can.)(M.V.)	Steel	2097	3000	251.3	43.10	22	Arch		4		1 750	1 750	1 750	1 750			1936	Que. & Ont. Transp. Co., Ltd. Montreal, Quebec
Frantz, Jos. H.	Steel	8289	13900	601.6	62	32	Arch	Side	18	24	4 3100	5 3800	5 3900	4 3100			1925	Columbia Transp. Co. Cleveland, Ohio
Fraser, Leon	Steel	10294	17650	622.6	67	35	Arch	Side	18	24	6 6100	6 5250	6 6300				1942	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Frick, Henry C.	Steel	6834	16800	555.5	56.2	31	Arch	Side	17	24	9 5500	8 5300					1905	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Frontenac	Steel	8158	11700	590	60	32	Arch	Side	18	24	4 3300	5 2700	5 2700	4 3000			1923	Cleve.-Cliffs Iron Co. Cleveland, Ohio
Frontier	Steel	421		121	38	14						SUP	PLY	BO	AT		1910	Hans Hansen Welding Co. Toledo, Ohio
Gallagher, Michael	Steel	5141	7600	420	54.2	28	Arch	Side	23	12	5 1800	6 1800	6 1800	6 2200			1907	Midland S. S. Line Cleveland, Ohio
Galloway, Chas. W.	Steel	6291	10000	504	54	30	Arch	Side	15	24	3 2000	4 2700	4 2700	4 2600			1910	Columbia Transp. Co. Cleveland, Ohio
Galster, John L. A.	Steel	2172	3000	250	43	22.6			Cement Carrier								1909	Petoskey Trans. Co., Petoskey, Mich.
Gary, Elbert H.	Steel	6584	10800	556	56.2	31	Arch	Side	17	24	9 5500	8 5300					1905	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Gates, John W.	Steel	5199	8150	478	52	30	Arch	Side	14	24	14 8150						1900	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Gilbert	Steel	1108		195.3	42.4	14.6					BULK SAND						1924	Lake Sand Corp. Chicago, Ill.
Gillies, Donald B.	Steel	6588	10000	525	55	31	Arch	Side	32	12	10 3500	12 3000	10 3500				1905	Hutchinson & Co. Cleveland, Ohio
Girdler, Tom, M.	Steel	9115	14000	602	71.6	35	Arch	Side	15	24	5 5050	5 4200	5 4750				1946	Nicholson Universal Steamship Co., Inc., Detroit, Mich.
Gleneagles (Can.)	Steel	8233	12500	583	60	32.1	Arch	Side	23	18	6 3300	6 3150	6 3150	5 2900			1925	Canada S. S. Lines, Ltd. Montreal, Quebec
Glenelg (Can.)	Steel	2099	2400	252	42	25.6	Arch		10	12	4 900	3 750	3 750	Self	Unlo	ader	1923	Canada S. S. Lines, Ltd. Montreal, Quebec



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## GENERAL DIMENSIONS OF LAKE VESSELS

101

Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Glitrefjell (Norw.)	Steel	1530		246	37.9	18.2			2								1934	Great Lakes Transatlantic, Inc. Chicago, Ill.
Goderich (Can.)	Steel	5667	8500	480	54	30	Arch	Side	14	24	2600	2600	3300				1908	Canada S. S. Lines, Ltd. Montreal, Quebec
Grace, E. G.	Steel	8758	14850	604.8	60.2	35	Arch	Side	18	24	3950	3300	3400	4200			1943	Interlake S. S. Co. Cleveland, Ohio
Grainmotor (Can.)(M.V.)	Steel	1829	3000	252	43	20.6			7		3 1400	4 1600					1929	Canada S. S. Lines, Ltd. Montreal, Quebec
Grand Island	Steel	5446	8600	488.6	52	30	Arch	Side	14	24	1300	2200	2200	2900			1905	Cleveland-Cliffs Iron Co. Cleveland, Ohio
Green, Edward B.	Steel		19700	620	70	36	Arch	Side	19	24	4160	5180	5180	5180			1952	Cleveland Cliffs Iron Co. Cleveland, Ohio
Grey Beaver (Can.)	Steel	1892	2900	253	43.8	20.6	Arch		6	24	2 1000	2 1000	2 900				1929	Upper Lakes & St. Lawrence Transp. Co., Ltd., Toronto, Ont.
Hagarty (Can.)	Steel	7462	10000	529	58	31	Arch	Side	16	24	2200	3 1800	2 1000	2 1000	3 1800	3 2200	1914	Canada S. S. Lines, Ltd. Montreal, Quebec
Hamildoc (Can.)	Steel	1796	3000	253	43.4	20.6	Arch		6	24	2 1000	2 1000	2 1000				1928	Paterson S. S. Ltd. Fort William, Ont.
Hanna, Howard M. Jr.	Steel	6204	10000	504	54	30	Arch	Side	15	24	3 2000	4 2700	4 2700	4 2600			1914	Columbia Transp. Co. Cleveland, Ohio
Hanna, Leonard C.	Steel	6356	9800	504	54	30	Arch	Side	16	24	6 3500	5 3000	5 3300				1905	Bethlehem Transp. Corp. Cleveland, Ohio
Harmony (M.V.)	Steel	890		212	37	13.9		10			TAN	KER	- 11,	074 B	bls.		1931	Gulf Refining Co. New York, N. Y.
Harvard	Steel	4565	7500	461	50.2	28.6	Arch	Side	13	24	13 7500						1900	Buckeye S. S. Co. Cleveland, Ohio
Harvester, The	Steel	7188	10500	525	58	31	Arch	Side	32	12	10 3600	12 3400	10 3500				1911	International Harvester Co. Chicago, Ill.
Harvey, A. F.	Steel	7973	13300	538.3	60.2	32	Arch	Side	18	24	6 4700	6 3850	6 4750				1927	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Hastings (Can.)	Steel	1906	2400	252	42.4	20.6	Arch		7	24	700	1200	500				1923	Canada S. S. Lines, Ltd. Montreal, Quebec
Hatfield, Joshua A.	Steel	7940	13300	586.3	60.2	32	Arch	Side	18	24	6 4700	6 3850	6 4750				1923	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Hebard, Chas. S.	Steel	6213	9500	504	54	30	Arch	Side	16	24	4 2400	4 2400	4 2000	4 2700			1906	The Wilson Transit Co. Cleveland, Ohio
Heekin, Albert E.	Steel	7031	10200	525	58	31	Arch	Side	31	12	10 3600	12 3000	9 3600				1917	M. A. Hanna Co. Cleveland, Ohio

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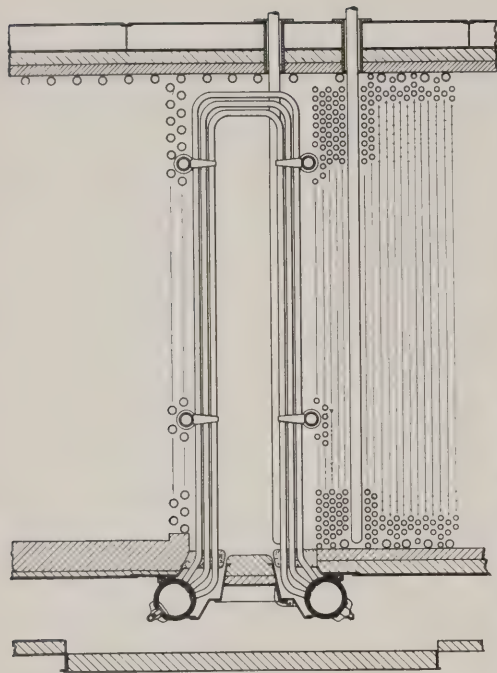
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## GENERAL DIMENSIONS OF LAKE VESSELS

103

Name	Built of	Ton-nage	Capac-ity	DIMENSIONS			Con-struc-tion	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Hemlock	Steel	4684	7200	420	52	28	Arch	Side	23	12	5 2000	6 1500	6 1600	6 2100			1907	Interlake S. S. Co. Cleveland, Ohio
Hennepin	Steel	6272	9500	504	54	30	Arch	Side	30	12	7 2400	7½ 2300	8½ 2400	7 2400			1905	Cleveland-Cliffs Iron Co. Cleveland, Ohio
Heron Bay (Can.)	Steel	3759	5400	376	46	26	Arch		10	24	2 1200	2 1100	2 1000	2 1000	2 1100		1902	Que. & Ont. Transp. Co., Ltd. Montreal, Quebec
Hewitt, Fred L.	Steel	4522	7300	416	50.3	28	Arch		12	24	12 7300		Auto	Carrier			1903	Nicholson Universal Steamship, Inc., Detroit, Mich.
Highway 16	Steel	2860		309	50	25					AUT	O	CA	RR	IE	R	1942	Wisconsin & Michigan S.S. Co. Milwaukee, Wis.
Hill, James J.	Steel	5255	8200	478	52	30	Arch	Side	14	24	14 8200						1900	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Hill, Louis W.	Steel	7038	10200	525	58	31	Arch	Side	31	12	10 3600	12 3000	9 3600				1917	M. A. Hanna Co. Cleveland, Ohio
Hillman, J. H. Jr.	Steel	9057	15100	603.8	60.2	35	Arch	Side	18	24	4 4000	5 3350	5 3450	4 4300			1943	Great Lakes S. S. Co. Cleveland, Ohio
Hindman, Blanche (Can.)	Steel	1564	2500	245.8	41	15.3			6	24	2 750	2 600	2 750				1903	Hindeman Transp. Co., Ltd. Owen Sound, Ont.
Hindman, Geo. (Can.)	Steel	2286	3000	252.5	43.2	25.6	Arch		6	24	3 1200	3 1800					1902	Hindman Transp. Co., Ltd. Owen Sound, Ont.
Hindman, Helen (Can.)	Steel	1563	2100	246	41	15.2			6	24	2 750	2 600	2 750				1903	Hindman Transp. Co., Ltd. Owen Sound, Ont.
Hindman, Howard (Can.)	Steel	1896	2500	266	38	19.9			7	24							1890	Hindman Transp. Co., Ltd. Owen Sound, Ont.
Holston, Robert	Steel	8024	12000	586.3	60.2	32	Arch	Side	18	24	4 3000	5 3000	5 3000	4 3000			1927	Interlake S. S. Co. Cleveland, Ohio
Hochelaga (Can.)	Steel	11997	18100	640	67	35	Arch	Side	18	24	4200	5300	5300	4200			1949	Canada Steamship Lines Ltd., Montreal, Quebec
Holloway, W. W.	Steel	6839	11000	532	56	31	Arch	Side	31	12	8 3200	7 2500	8 2500	8 2800			1906	Columbia Transp. Co. Cleveland, Ohio
Holst, R. W. (M.V.)	Steel	184		114.2	28	6.6						Bulk	Sand				1929	The Vermilion Sand & Supply Co., Vermilion, Ohio
Hood, Clifford F.	Steel	4165	6700	414	50	28	Arch	Side	3		3 6700		Bulk	Steel			1902	American Steel & Wire Co. Cleveland, Ohio
Hosford, Harry Wm.	Steel	5156	9000	512.9	50.2	28	Arch	Side	16	24	3 1700	3 1700	3 1700	4 2200	3 1700		1903	Buckeye S. S. Co. Cleveland, Ohio
Houghton, Douglas (Can.)	Steel	4515	7300	456	50	29	Arch	Side	14	24	7 3700	7 3600					1899	Upper Lakes & St. Lawrence Transp. Co., Ltd., Toronto, Ont



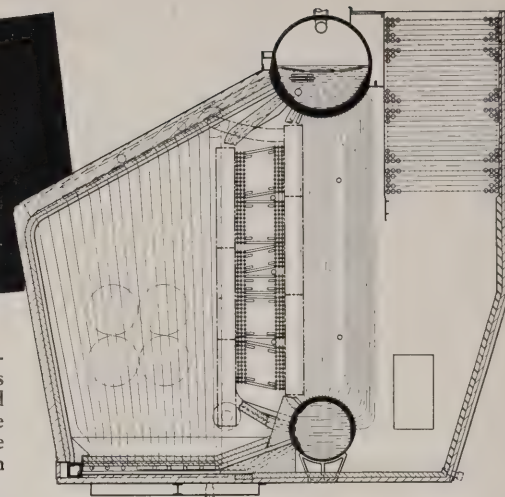


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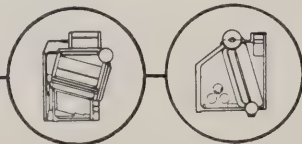
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## GENERAL DIMENSIONS OF LAKE VESSELS

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Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
House, Francis E.	Steel	7869	12600	591.7	60.2	32	Arch	Side	18	24	6 4500	6 3600	6 4500				1907	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Hoyt, Elton 2nd.	Steel		18000	626	70	37	Arch	Side	18	24	4 4750	5 4350	5 4350	4 4550			1952	Interlake S.S. Co., Cleveland, Ohio
Hubbard, Chas.	Steel	4846	7600	438.7	52	28	Arch		13	24	3 1800	3 1800	3 1800	4 2200			1907	Great Lakes S. S. Co. Cleveland, Ohio
Hudson, A. A. (Can.)	Steel	2222	3100	248	43	25	Arch		6	24	2 1000	2 1100	2 1000				1924	Northwest S. S. Ltd. Toronto, Ont.
Hudson, Bruce (Can.)	Steel	753		172	30.6	16						TAN	KER	- 8,700	Bbls.		1935	Lloyd Tankers, Ltd. Toronto, Ont.
Hulst, John	Steel	8302	13900	593.3	60.2	32.6	Arch	Side	18	24	6 5100	6 3900	6 4900				1938	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Humberdoc	Steel	1946	3200	291	43	20	Arch		9	12	3 700	3 1200	3 500				1937	Erie & St. Lawrence Corp. Buffalo, N. Y.
Huntley, Chas R. (Can.)	Steel	1760	2400	253	43.1	20	Arch		7	24	3 1100	4 1300					1926	Upper Lakes & St. Lawrence Transp. Co., Ltd., Toronto, Ont.
Huron	Steel	4810	6000	416	56	30	Arch	Side	21	12	7 1500	7 2000	7 2500	Self	Unlo	ader	1914	Wyandotte Transp. Co. Wyandotte, Mich.
Hutchinson, Charles L.	Steel		18000	342.2	67	35	Arch	Side	19	24	4 4300	5 4500	5 4500	5 4700			1952	Hutchinson & Co. Cleveland, Ohio
Hutchinson, Chas. L.	Steel		17000	342	67	35	Arch	Side	19	24	4 3860	5 4375	5 4285	5 4550				Hutchinson & Co. Cleveland, Ohio
Hutchinson, Gene C.	Steel	7215	11500	580	58	32	Arch	Side	36	12	12 4000	12 3600	12 4100				1916	Hutchinson & Co. Cleveland, Ohio
Hutchinson, John T.	Steel	8758	14850	604.8	60.2	35	Arch	Side	18	24	4 3950	5 3300	5 3400	4 4200			1943	Buckeye S. S. Co. Cleveland, Ohio
Hydro	Steel	1282	1300	172	40.6	19						Bulk	Sand	& Gravel			1913	Kelley Island Lime & Transp. Co., Sandusky, Ohio
Hyman, Myron L.	Steel	404		136.6	33	9							Bulk	Sand			1907	Buffalo Gravel Corp. Buffalo, N. Y.
Imperial Collingwood (Can.)	Steel	2128		252	43.6	18.0					TAN	KER	- 24,500	Bbls.			1947	Imperial Oil Ltd. Toronto, Ontario
Imperial Cornwall (Can.)	Steel	1919		250	43	18					TAN	KER	- 21,500	Bbls.			1930	Imperial Oil Ltd. Toronto, Ontario
(Can.) Imperial Goderich (M.V.)	Steel	1560		230.8	39.8	18.6					TAN	KER	- 13,200	Bbls.			1938	Imperial Oil Ltd. Toronto, Ontario
Imperial Hamilton (Can.)	Steel	2060		250	43.1	18.2					TAN	KER	- 21,000	Bbls.			1916	Imperial Oil Ltd. Toronto, Ontario



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## GENERAL DIMENSIONS OF LAKE VESSELS

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Name	Built of	Ton-nage	Capac-ity	DIMENSIONS			Con-struc-tion	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Imperial Kingston (Can.)	Steel	2060		250	43	18					TAN	KER	- 21,000	B	bls.		1916	Imperial Oil Ltd. Toronto, Ontario
Imperial Cobourg (Can.)	Steel	2253		249.6	43.1	21.0					TAN	KER	- 24,750	B	bls.		1913	Imperial Oil Ltd. Toronto, Ontario
Imperial Lachine (Can.)	Steel	716		175	35	13	Arch				TAN	KER	- 7,350	B	bls.		1930	Imperial Oil Ltd. Toronto, Ontario
Imperial Leduc (Can.)	Steel	15800		620	68	35	Arch				TAN	KER	115,000	B	bls.		1951	Imperial Oil, Ltd. Toronto, Ontario
Imperial London (Can.)	Steel	2130		252	43.6	18					TAN	KER	- 24,500	B	bls.		1947	Imperial Oil Ltd. Toronto, Ontario
Imperial Midland (Can.)	Steel	2631		250	43.9	25					TAN	KER	- 28,300	B	bls.		1918	Imperial Oil Ltd. Toronto, Ontario
Imperial Ottawa (Can.)	Steel	715		175	35	13					TAN	KER	- 7,350	B	bls.		1930	Imperial Oil Ltd. Toronto, Ontario
Imperial Redwater	Steel	15800		620	68	35	Arch				TAN	KER	115,000	B	bls.		1951	Imperial Oil, Ltd. Toronto, Ontario
Imperial Sarnia (Can.)	Steel	4580		380	53	26					TAN	KER	- 56,000	B	bls.		1948	Imperial Oil Ltd. Toronto, Ontario
Imperial Simcoe (Can.)	Steel	1919		250	43	18					TAN	KER	- 21,500	B	bls.		1930	Imperial Oil Ltd. Toronto, Ontario
(M.V.) (Can.) Imperial Vancouver	Steel	1560		230.0	39.8	18.5					TAN	KER	- 13,596	B	bls.		1938	Imperial Oil Ltd. Toronto, Ontario
Imperial Welland (Can.)	Steel	2052		250	43.1	18					TAN	KER	- 21,000	B	bls.		1916	Imperial Oil Ltd. Toronto, Ontario
Imperial Windsor (Can.)	Steel	1930		250	43.2	18					TAN	KER	- 21,500	B	bls.		1927	Imperial Oil Ltd. Toronto, Ontario
Imperial Woodbend (Can.)	Steel	15800		620	68	35	Arch				TAN	KER	115,000	B	bls.		1952	Imperial Oil Ltd. Toronto, Ontario
Ingalls, Geo. H.	Steel	4904	7300	430	50.2	28.6	Arch		24	12	<sup>9</sup> 2700	<sup>8</sup> 2300	<sup>7</sup> 2300	Auto	Carrier		1901	Automotive Trades S. S. Co. Detroit, Mich.
Inkster, Walter (Can.)	Steel	2079	3300	253	44	21.9			3		1150	1150	1000			Rebuilt 1941 1895	Colonial S. S., Ltd. Port Colborne, Ont.	
Inland, The (M.V.)	Steel	1695	3000	250.3	42.9	17.3	Arch		2		<sup>1</sup> 1600	<sup>1</sup> 1400		Bulk	Steel		1926	Inland Steel Co. Cleveland, Ohio
International, The	Steel	7984	13500	586.3	60	32	Arch	Side	34	12	4650	4200	4650				1923	International Harvester Co. Chicago, Ill.
Ireland, Robert L.	Steel	6387	9500	504	54	30	Arch	Side	30	12	<sup>7</sup> 2700	<sup>8</sup> 2000	<sup>8</sup> 2000	<sup>7</sup> 2800			1914	The Wilson Transit Co. Cleveland, Ohio



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## GENERAL DIMENSIONS OF LAKE VESSELS

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Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Ironwood	Steel	1310	1600	208.9	40	16	Arch		2		2 1600		Bulk	Steel			1902	Nicholson Transit Co. River Rouge, Mich.
Irvin, Wm. A.	Steel	8240	13800	593.2	60.2	32.6	Arch	Side	18	24	6 5700	6 3850	6 4850				1938	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Iselin, Adrian	Steel	2040	3000	244	43	23	Arch		3	12	1 1400	2 1600					1914	Nicholson Transit Co. River Rouge, Mich.
Ishpeming	Steel	7015	10000	530	56.2	31	Arch	Side	31	12	7 2600	8½ 2500	8½ 2500	7 2400			1906	Cleveland-Cliffs Iron Co. Cleveland, Ohio
Joan Virginia (Can.)	Steel	1239		219.5	34.3	14.9	Arch						TAN	KER	- 11,	500 B bls.	1919	Lloyd Tankers Ltd. Toronto, Ontario
John, J. B.	Steel	2172	3000	250	43	25							Bulk	Cement			1909	Petoskey Transp. Co. Petoskey, Mich.
Johnson, Horace	Steel	7918	13600	587.2	60.2	32	Arch	Side	18	24	6 5000	6 3800	6 4800				1929	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Johnstown	Steel		18000	676	70	37	Arch	Side	19	24	5 4750	5 4350	5 4350	4 4550			1952	Bethlehem Trans. Corp. Cleveland, Ohio
Joliet	Steel	6262	9300	504	54	30	Arch	Side	16	24	4 2300	4 1350	4 1850	4 2800			1916	Cleveland-Cliffs Iron Co. Cleveland, Ohio
Jones, B. F.	Steel	6741	10200	538.4	56.2	31	Arch	Side	16	24	5 3500	6 3100	5 3600				1906	Interstate S. S. Co. Cleveland, Ohio
Jones, Harry R.	Steel	5315	7700	455.2	52.2	23	Arch		24	12	5 1700	7 2250	8 2250	4 1500			1903	Interlake S. S. Co. Cleveland, Ohio
Jupiter	Steel	3719	5600	346	48	28	Arch		10	24	3 1600	4 2390	3 1700				1901	Jupiter S. S. Co. Cleveland, Ohio
Kelley Island	Steel	683	1250	179.8	38.1	16							Bulk	Sand	& Gravel		1914	Kelley Island Lime & Transp. Co., Sandusky, Ohio
Kendrick, Edw. S.	Steel	6294	9800	520	54	31	Arch	Side	16	24	4 2600	4 2300	4 2300	4 2600			1907	The Wilson Transit Co. Cleveland, Ohio
Kenefick, Judge (Can.)	Steel	1745	3000	253	43.1	20	Arch		7	24	3 1400	4 1600					1925	Upper Lakes & St. Lawrence Transp. Co., Ltd., Toronto, Ont.
Kenora (Can.)	Steel	1979	2200	249.3	42.6	23			5		900	600	700	Pack	age	Freight	1907	Canada S. S. Lines, Ltd. Montreal, Quebec
Kermic (Can.)	Steel	247		106.7	22.4	7.9											1937	Quebec Paper Sales & Transp. Co., Ltd., Quebec, Quebec
Kerr, D. G.	Steel	8017	13600	580	60	32	Arch	Side	35	12	12 5000	12 3800	11 4800				1916	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Keybar (Can.)	Steel	1723	2800	250	42.6	19.3	Arch		6	24	2 1100	2 1100	2 600				1923	Keystone Transports, Ltd. Montreal, Quebec

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# GENERAL DIMENSIONS OF LAKE VESSELS

111

Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lght.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Keybell (Can.)	Steel	1730	3000	250	42.6	20	Arch		6	24	2 1100	2 800	2 1100				1912	Keystone Transports, Ltd. Montreal, Quebec
Keydon (Can.)	Steel	1739	2400	252	42.4	20.6	Arch		6	24	2 800	2 800	2 800				1927	Keystone Transports, Ltd. Montreal, Quebec
Keynor (Can.)	Steel	1806	3100	250	42.6	20	Arch		6	24	2 1100	2 1100	2 900				1914	Keystone Transports, Ltd. Montreal, Quebec
Keyport (Can.)	Steel	1721	3000	250	42.6	20	Arch		6	24	2 1100	2 1200	2 700				1909	Keystone Transports, Ltd. Montreal, Quebec
Keyshey (Can.)	Steel	1796	3000	253	43.2	20.6			6	24	2 1000	2 1000	2 1000				1928	Keystone Transports, Ltd. Montreal, Quebec
Keystate (Can.)	Steel	1729	2800	250	42.6	19.3	Arch		6	24	2 1100	2 1100	2 600				1923	Keystone Transports, Ltd. Montreal, Quebec
Keyvive (Can.)	Steel	1768	3100	250	42.6	20	Arch		6	24	2 1100	2 1100	2 900				1913	Keystone Transports, Ltd. Montreal, Quebec
Keywest	Steel	1739	2400	252	42.4	20.6			6	24	2 800	2 800	2 800				1927	Keystone Transports, Ltd. Montreal, Quebec
King, Willis L.	Steel	7802	11500	580	58.2	32	Arch	Side	36	12	12 4100	12 3400	12 4000				1911	Jones & Laughlin Steel Corp. Lake Transportation Div.
Kingdoc (Can.)	Steel	1926	2600	253	42	20			7	24	4 1400	3 1200					1927	Paterson S. S., Ltd. Fort William, Ont.
Kinmount (Can.)	Steel	1711	2700	252	43	19.1	Arch		7	24	2 800	3 1200	2 700				1923	Canada S. S. Lines, Ltd. Montreal, Quebec
Kinney, A. T.	Steel	6328	9500	504	54	30	Arch	Side	30	12	7 2400	8 2400	7 2200	8 2500			1908	Wilson Transit Co. Cleveland, Ohio
Kling, John A.	Steel	6821	9900	546.3	56.2	30.4	Self Unloader Arch	ader Side	No. 7 30	1400 12	5 1500	2 800	4 1400	5 1700	4 1400	5 1700	1922	Rockport S. S. Co. Sheboygan, Wisc.
Koalkraft	Steel	376		159	37.6	10.4							Fuel				1913	So. Chicago Coal & Dock Co. Chicago, Ill.
Kopmeier, Norman J.	Steel	6606	9300	510.5	53.8	30	Arch	Self Side	Unloa 26	der 12	7 2700	5 1700	5 1700	6 2000	3 1200		1906	Boland & Cornelius Buffalo, N. Y.
Kulas, E. J.	Steel	7768	11800	589.2	60	32	Arch	Side	18	24	4 2600	5 3200	5 3200	4 2800			1925	The Wilson Transit Co. Cleveland, Ohio
La Belle	Steel	6407	9500	504	54	30	Arch	Side	30	12	7 2700	8 1900	8 2200	7 2700			1909	M. A. Hanna Co. Cleveland, Ohio
La Salle	Steel	6924	10000	530	56.2	31	Arch	Side	31	12	7 2600	8½ 2500	8½ 2500	7 2400			1906	Cleveland-Cliffs Iron Co. Cleveland, Ohio
Lackawanna	Steel	6971	10600	530	56.2	31	Arch	Side	32	12	11 3700	11 3450	10 3450				1908	Bethlehem Transp. Corp. Cleveland, Ohio





## GENERAL DIMENSIONS OF LAKE VESSELS

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Name	Built of	Ton-nage	Capac-ity	DIMENSIONS			Con-struc-tion	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager	
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6			
Lagonda	Steel	3647	5200	375.6	45.8	28	Arch		4		4 5200		Steel	& Scrap		1896	Boland & Cornelius Buffalo, N. Y.		
Laholm (Swed.) (M.V.)	Steel	1632		258	42				4		Pack	age	Fr	eight		1942	Swedish American Lines Montreal, Quebec		
Laketon (Can.)	Steel	4423	7000	416	50	28	Arch		12	24	3 1900	3 1600	3 1600	3 1900		1903	Colonial S. S., Ltd. Port Colborne, Ont.		
Lamont, Thomas W.	Steel	7964	13300	587.9	60.2	32	Arch	Side	18	24	6 4750	6 4000	6 4550			1930	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio		
Laughlin, James	Steel	6941	10200	538.4	56.2	31	Arch	Side	16	24	5 3500	6 3100	5 3600			1906	Jones & Laughlin Steel Corp. Lake Transportation Div.		
Lavaldoc (Can.)	Steel	1918	2800	253	43.2	20			7	24	3 1300	4 1500				1928	Paterson S. S., Ltd. Fort William, Ont.		
Lawrendoc (Can.)	Steel	1924	3000	253	43	20			6	24	3 1400	3 1600				1929	Paterson S. S., Ltd. Fort William, Ont.		
Lebanon	Steel	6971	10700	530	56.2	31	Arch	Side	31	12	10 3600	11 3500	10 3600			1907	Bethlehem Transp. Corp. Cleveland, Ohio		
Leetsdale	Steel	3760	5800	396.4	45	28	Arch		11	24	2 1200	3 1500	4 1800	2 1300		1896	Bethlehem Transp. Corp. Cleveland, Ohio		
Leecliffe Hall (Can.)	Steel	1985	2800	253	43.9	20.6	Arch		6	24	1450	1350				1947	Hall Corp. of Canada Montreal, Quebec		
Lehigh	Steel	9057	14850	603.8	60.2	35	Arch	Side	18	24	4 3950	5 3300	5 3400	4 4200		1943	Bethlehem Transp. Corp. Cleveland, Ohio		
Lemoyne (Can.)	Steel	10480	14500	620	70	29	Arch	Side	No. 7 25	4-2400 18	3 2000	4 2300	3 1700	4 2200	3 1700	4 2200	1926	Canada S. S. Lines, Ltd. Montreal, Quebec	
Leslie, Alexander (Can.)	Steel	3509	5800	346	48	28	Arch	Side	17	12	5 1800	8 2200	4 1800			1901	L. Erie Nav. Co., Ltd. Walkerville, Ont.		
Lethbridge (Can.)	Steel	2407	2200	250	42.9	26.6			6	24	2 900	2 600	2 700	Pack	age	Fr	eight	1924	Canada S. S. Lines, Ltd. Montreal, Quebec
Lindabury, Richard V.	Steel	7940	13400	586.3	60.2	32	Arch	Side	18	24	6 4800	6 4025	6 4575			1923	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio		
Lubrolake (M.V.)	Steel	1518		251.2	43	16.6	5					TAN	KER	22,000	Bbls.	1937	Cleveland Tankers, Inc. Cleveland, Ohio		
Lukesfjell (Norw)	Steel	1530		245	37.9	18.2			2		1 2	1 Comp.				1930	Great Lakes Transatlantic, Inc. Chicago, Ill.		
Lynch, Thomas	Steel	7723	12400	586.5	58.2	32	Arch	Side	18	24	6 4450	6 3850	6 4200			1907	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio		
Mac Naughton, James	Steel	8299	11800	587.5	60	32	Arch	Side	35	12	8 2700	9 2900	9 2900	9 3300		1922	The Wilson Transit Co. Cleveland, Ohio		

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## GENERAL DIMENSIONS OF LAKE VESSELS

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Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
MacPherson, N'm.B. (Can.)	Steel	1743	3000	253	43.1	20	Arch		7	24	3 1400	4 1600					1925	Upper Lakes & St. Lawrence Transp. Co., Ltd., Toronto, Ont.
Mc Alpine, James E.	Steel	5057	7800	432	52	28	Arch		24	12	6 1950	6 1900	6 1950	2000			1908	Brown & Co. Buffalo, N. Y.
Mc Carthy, T. J.	Steel	4904	7300	430	50.2	28.6	Arch	Side	24	12	9 2700	8 2300	7 2300	Auto 450	Carr Autos	ier	1901	Automotive Trades S. S. Co. Detroit, Mich.
Mc Cool, Daniel (M.V.)	Steel	649	850	147.0	33.1	13.6					6 C Bulk	Comp. Cement					1926	Cement Transit Co. Cleveland, Ohio
Mc Cullough, C. H. Jr.	Steel	5750	10200	540	56	31	Arch	Side	16	24	4 2600	4 2600	4 2600	4 2600			1907	Interlake S. S. Co. Cleveland, Ohio
Mc Farland, O. S.	Steel	3954	6100	370.8	50.2	28	Arch		3		1 1900	1 2400	1 1800	Self	Unloa ler		1903	Columbia Transp. Co. Cleveland, Ohio
Mc Gean, W. H.	Steel	6014	9000	479	56	30	Arch	Side	28	12	9 3000	10 3000	9 3000				1909	Hutchinson & Co. Cleveland, Ohio
Mc Gonagle, W. A.	Steel	7811	13600	580	60	32	Arch	Side	35	12	12 3000	12 3800	11 4500				1916	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
McKellar, John O. (Can.)	Steel	1927	2900	253	43.4	20	Arch		6	24	3 1500	3 1400					1929	Colonial S. S., Ltd. Port Colborne, Ont.
Mc Kinney, Price	Steel	4671	7600	432	54	28	Arch	Side	12	24	3 2200	3 1600	3 1600	3 2200			1908	Hutchinson & Co. Cleveland, Ohio
Mc Laughlin, Wm.	Steel	8024	12000	586.3	60.2	32	Arch	Side	18	24	4 3000	5 3000	5 3000	4 3000			1927	Interlake S. S. Co. Cleveland, Ohio
Mc Watters, J. N. (Can.)	Steel	1928	3000	253	43.4	20	Arch		6	24	3 1500	3 1500					1929	Colonial S. S., Ltd. Port Colborne, Ont.
Maine	Steel	3337		353.4	43.1	25.6		16				TAN	KER	- 43.	784 B	bls.	1921	The Texas Co. New York, N. Y.
Makaweli (Can.)	Steel	2630	3900	253.5	43	27.5						TAN	KER				1919	Lakeland Tankers, Ltd. Toronto, Ontario
Makesfjell (Norw)	Steel	1530		246	37.9	18.2			2		1	1					1932	Great Lakes Transatlantic, Inc. Chicago, Ill.
Malietoa	Steel	4584	7250	454	50.1	28.6	Arch	Side	13	24	13 7250						1899	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Mancox, (Can.)	Steel	1573	2100	246	41	15.3	Traveling Crane		6	24	2 750	2 600	2 750				1903	Yank Canuck Transp. Co., Ltd. Sault Ste. Marie, Ont.
Manion, Paul D. (Can.)	Steel	1927	2900	253	43.4	20	Arch		6	24	3 1500	3 1400					1929	Colonial S. S., Ltd. Port Colborne, Ont.
Mantadoc (Can.)	Steel	4466	6900	416	50	28	Arch		12	24	3 1750	3 1600	3 1600	3 1950			1903	Paterson S. S., Ltd. Fort William, Ont.



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## GENERAL DIMENSIONS OF LAKE VESSELS

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Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Manuel, John S.	Steel	5494	8500	444	56.2	30	Arch	Side	25	12	8 2800	9 2500	8 3200				1910	Hutchinson & Co. Cleveland, Ohio
Manzzutti, (Can.)	Steel	1563	2100	246.1	41	15.2	Traveling Crane		6	24	2 750	2 600	2 750				1903	Yankanuck Transp. Co., Ltd. Sault Ste. Marie, Ont.
Maplebranch (Can.)	Iron	1046		231	35.6	12.7			6	24		TAN	KER	6,000	Bbls.		1872	Branch Lines, Ltd. Sorel, Quebec
Maple City (Can.)	Steel	135.33		64.6	36	10	Weld'd			Ferry							1951	Prescott & Ogdensburg Ferry Co., Ltd., King St., Prescott, Ont.
Mapleheath (Can.)	Steel	1692	2200	250	42.6	19	Arch		6	24	500	400	800	500			1911	Canada S. S. Lines, Ltd. Montreal, Quebec
Martian (Can.)	Steel	3484	5200	346	48	28	Arch		10	24	10 5200						1901	Mohawk Nav. Co., Ltd. Montreal, Quebec
Marquette	Steel	4956	7200	420	52.2	28	Arch		12	24	3 1900	3 1800	3 1800	3 1700			1906	Cleveland-Cliffs Iron Co. Cleveland, Ohio
Maryland	Steel	6971	10700	530	56.2	31	Arch	Side	32	12	11 3800	11 3400	10 3500				1908	Bethlehem Transp. Corp. Cleveland, Ohio
Mascot	Wood		15	64.10	15	6.6						Passenger					1925	Neuman Boat Line, Inc. Sandusky, Ohio
Massey, F. V. (Can.)	Steel	1895	3000	253	43.8	20.6	Arch		6	24	2 1100	2 900	2 1000				1929	Mohawk Nav. Co. Montreal, Quebec
Mataafa	Steel	4319	6900	429.6	50	28.6	Arch	Side	12	Automobile Car Flight	24						1899	Nicholson Transit Co. Ecorse-Detroit 18, Mich.
Mather, Samuel	Steel	8151	12000	586.3	60.2	32	Arch	Side	18	24	6 4500	6 3300	6 4200				1926	Interlake S. S. Co. Cleveland, Ohio
Mather, Wm. G.	Steel	8662	12400	601	62	32	Arch	Side	18	24	4 3400	5 2700	5 2900	4 3400			1925	Cleveland-Cliffs Iron Co. Cleveland, Ohio
Mathewston (Can.)	Steel	7403	12000	530	58	21	Arch	Side	31	12	6 2400	5 2000	5 1700	5 1700	5 1900	5 2300	1922	Colonial S. S., Ltd. Port Colborne, Ont.
Mathiott, E. G.	Steel	3606	5200	352.9	48.2	28	Arch	Self Unloader	10	24	3 1400	2 1025	2 1025	3 1750			1902	Columbia Transp. Co. Cleveland, Ohio
Maunaloa 2 (Can.)	Steel	4322	6800	430	50	28.6	Arch	Side	13	24	7 3600	6 3200					1899	Upper Lakes & St. Lawrence Transp. Co., Ltd., Toronto, Ont.
Mauthe, J. L.	Steel		18000	647	70	36	Arch	Side	19	24	5 4750	5 4350	5 4350	4 4550			1952	Interlake S.S. Co., Cleveland, Ohio
Mead, Geo. W.	Steel	3968	6200	387	50.2	28	Arch		16	12	Auto	Carr	ier	(350 Autos)			1905	T. J. McCarthy S. S. Co. Detroit, Mich.
Meadcliffe Hall (Can.)	Steel	1895	2700	253	43.8	20.6	Arch		6	24	3 1350	3 1350					1929	Hall Corp. of Canada Montreal, Quebec



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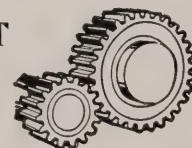
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## GENERAL DIMENSIONS OF LAKE VESSELS

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Name	Built of	Ton- nage	Capa- city	DIMENSIONS			Con- struc- tion	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager	
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6			
Meaford (Can.)	Steel	1824	2600	252	43	19	Arch		6	24	3 1250	3 1350					1925	Canada S. S. Lines, Ltd. Montreal, Quebec	
Mercury (M.S.)	Steel	1518		251.2	43	16.6		5				TAN	KER	- 22,	000 B	bls.	1937	Cleveland Tankers, Inc. Cleveland, Ohio	
Meteor	Steel	3383		366.5	45.4	26		8				TAN	KER	- 40,	000 B	bls.	1896	Cleveland Tankers, Inc. Cleveland, Ohio	
Mexoil	Steel	1370		242.5	36.9	19.7						TAN	KER	16,	666 B	bls.	1918	Great Lakes Transport Corp. Detroit, Mich.	
Meyers, Carl W.	Steel	4109	6600	406	48.2	28	Arch		11	24	1 11	AU	TOMO	BILE		CAR	RIER	1897	Nicholson Universal Steamship Co., Inc., Detroit, Mich.
Michigan	Steel	6924	10000	530	56.2	31	Arch	Side	31	12	7 2500	8½ 2500	8½ 2600	7 2400				1906	Cleveland-Cliffs Iron Co. Cleveland, Ohio
Michigan	Steel	3804		370	48.2	28	Arch	16				TAN	KER	- 46,	000 B	bls.	1902	The Texas Co. New York, N. Y.	
Michigan (M.S.)	Steel	1040	1900	257.4	36	14			7	24		7	Com p.				1921	Michigan Atlantic Corp. New York, N. Y.	
Midland Prince (Can.)	Steel	6339	6900	466	55	31	Self Arch	Unlo- ader	14	24	3 1200	4 2200	4 2200	3 1300				1907	Canada S. S. Lines, Ltd. Montreal, Quebec
Miller, Governor	Steel	8240	13800	593.2	60.2	32.6	Arch	Side	18	24	6 5100	6 3850	6 4850					1938	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Miller, J. Clare	Steel	6617	10900	525	55	31	Arch	Side	31	12	8 2900	7 2700	8 2600	8 2700				1906	Columbia Transp. Co. Cleveland, Ohio
Mills, D. O.	Steel	6598	10300	532	58.2	31.1	Arch	Side	33	12	11 3700	11 2900	11 3700					1907	Interlake S. S. Co. Cleveland, Ohio
Minch, Phillip	Steel	5865	8700	480	52	30	Arch	Side	28	12	7 2200	7 2200	7 2200	7 2200				1905	Kinsman Transit Co. Cleveland, Ohio
Misener, Lt. John (Can.)	Steel	1928	3000	253	43.4	20	Arch		6	24	3 1500	3 1500						1925	Colonial S. S., Ltd. Port Colborne, Ont.
Misener, Ralph S. (Can.)	Steel	1940	3000	253	43.4	20	Arch		6	24	3 1500	3 1500						1929	Colonial S. S., Ltd. Port Colborne, Ont.
Misener Scott	Steel	13080		654	68.3	35.2	Arch	Side	19	24	3	3	3	3	3	4	1950	Colonial Steamship Limited Port Colborne, Ont.	
Mitchell, Samuel	Steel	2379		298.8	40	24.5	Arch		4	24								1892	Huron Transportation Co. Detroit 26, Mich.
Mohawk Deer (Can.)	Steel	4423	7000	452	48.2	28.1	Arch		13	24	3 1800	4 1600	3 1300	4 2300				1896	Mohawk Nav. Co., Ltd. Montreal, Quebec
Moloney, D. A.	Steel	4471	6600	434	48	28	Arch		13	24	3 1600	2 1000	2 1000	3 1400	3 1600			1902	Nicholson Universal Steamship Co., Inc., Detroit, Mich.



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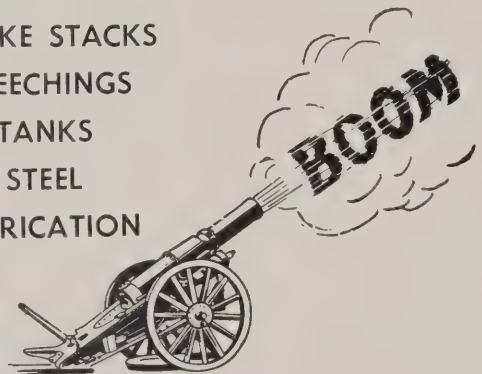
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## GENERAL DIMENSIONS OF LAKE VESSELS

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Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lght.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Mondoc (Can.)	Steel	1779	2800	253	43.2	20	Arch		7	24	3 1300	4 1500					1928	Paterson S. S., Ltd. Fort William, Ont.
Moody, R. E.	Steel	3663	5200	361.5	48.6	28	Arch	Self	Unloader 10	24	3 1400	2 1025	2 1025	3 1750			1903	Columbia Transp. Co. Cleveland, Ohio
Morgan, J. Pierpont	Steel	7709	12600	586.5	58.3	32	Arch	Side	18	24	6 4500	6 3600	6 4500				1906	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Morgan, J. P. Jr.	Steel	7694	12300	580	58	32	Arch	Side	35	12	12 4350	12 3750	11 4200				1909	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Morrell, Daniel J.	Steel	7763	11800	580	58	32	Arch	Side	18	24	6 4200	6 3600	6 4000				1906	Bethlehem Transp. Corp. Cleveland, Ohio
Morrow, Jos. S.	Steel	4760	7300	420	52	28	Arch		23	12	5 2000	6 1500	6 1600	6 2100			1907	Red Arrow S. S. Co. Sheboygan, Wisc.
Morse, J. C.	Steel	6649	10300	532	58	31	Arch	Side	32	12	10 3700	11 2900	11 3700				1907	Interlake S. S. Co. Cleveland, Ohio
Morse, Samuel F. B.	Steel	4477	7000	456	50	29	Arch	Side	15	24	15 7000						1898	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Mudge, Edmund W.	Steel	6336	9500	504	54	30	Arch	Side	30	12	7 2500	8 2200	8 2300	7 2500			1911	M. A. Hanna Co. Cleveland, Ohio
Munising	Steel	3338	6300	330	50	28	Arch		11	24	3 1800	3 1700	3 1700	2 1100			1902	Cleveland-Cliffs Iron Co. Cleveland, Ohio
Munson, John G.	Steel		20000	666.3	72	36	Self Arch	Unloader Side	18	24	3 3820	3 3010	3 3010	3 3010	3 3090	3 3870	1952	Michigan Limestone Div., U.S.S. Co., Rogers City, Mich.
Murphy, E. P. (Can.)	Steel	1927	2900	253	43.4	20	Arch		6	24	3 1500	3 1400					1929	Colonial S. S., Ltd. Port Colborne, Ont.
Murphy, Simon J.	Steel	4241	7000	435.5	51.5	23	Arch	Side	12	24	3 1700	3 1800	3 1900	3 1600			1900	Buckeye S. S. Co. Cleveland, Ohio
Nassau (M.V.)	Steel	2098		266	39	25.6							Sand	Sucker			1893	Fitz Simons & Connell Dredge & Dock Co., Chicago, Ill.
Negaunee	Steel	3644	6300	380	50	28	Arch	Side	11	24	3 1800	3 1700	3 1700	2 1100			1902	Cleveland-Cliffs Iron Co. Cleveland, Ohio
Nettleton, A. E.	Steel	6286	9800	535	55.3	31	Arch	Side	31	12	8 2600	8 2500	7 2200	8 2500			1908	Great Lakes S. S. Co. Cleveland, Ohio
Newbrundoc	Steel	1933	3100	253	43	20			6		1400	1200					1928	Paterson S. S. Ltd. Fort William, Ont.
(M.V.) New Haven Socony	Steel	1242		251.3	40			7					TAN	KER	- 14, 285 B bls.		1934	Socony Vacuum Oil Co., Inc. New York, N. Y.
(M.V.) Newscarrier (Can.)	Steel	243	230	106.8	22.4	7.8			3		3 230						1936	Quebec Paper Sales & Transp. Co., Ltd., Quebec, Quebec

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## GENERAL DIMENSIONS OF LAKE VESSELS

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Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lght.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
New York News (Can.)	Steel	2310	4000	248	43	25	Arch		4		2 2200	2 1800	Paper	Carrier			1925	Que. & Ont. Transp. Co., Ltd. Montreal, Quebec
Niagara	Steel	1760		249.5	41.4	16.8					Bulk	Sand	& Gravel				1897	Gravel Products Corp. Buffalo, N. Y.
(Can.)																		
Nisbet, Watkins F.	Steel	1747	2400	253	43.1	20	Arch		7	24	3 1100	4 1300					1923	Upper Lakes & St. Lawrence Transp. Co., Ltd., Toronto, Ont.
No Nox (M.V.)	Steel			200	38	13.9						TAN	KER	- 10,700 B bls.			1929	Gulf Oil Corp. New York, N. Y.
Norco (Can.)	Steel	1512	2000	246	38.3	18	Arch		2		1 1100	1 900					1915	Northern Paper Mills Green Bay, Wisc.
Normac (Can.)	Steel	462	200	125	26	16											1931	Owen Sound Trans. Company, Ltd.
Northcliffe Hall (Can.)	Steel	1985	2800	252.6	43.8	20.6	Arch		6	24	1450	1350					1947	Hall Corp. of Canada Montreal, Quebec
Norton, David Z.	Steel	5667	9000	480	52	30	Arch	Side	14	24	3 1900	4 2600	4 2600	3 1900			1906	Columbia Transp. Co. Cleveland, Ohio
Norway	Steel	6673	9700	504	58	30	Arch	Side	29	12	7 2300	7 2300	8 2700	7 2400			1910	Great Lakes S. S. Co. Cleveland, Ohio
Oakbranch	Steel	706	800	250	42.7	15						TAN	KER	- 17,000 B bls.			1904	Branch Lines, Ltd. Sorel, Quebec
Odanah	Steel	4658	7300	420	52	28	Arch	Side	23	12	5 2000	6 1500	6 1600	6 2100			1907	Interlake S. S. Co. Cleveland, Ohio
Oglebay Crispin	Steel	6634	10000	532	58.3	31	Self Arch	Unlo ader Side	29	12	1250	1750	2000	2000	1700	1300	1908	Columbia Transp. Co. Cleveland, Ohio
Oil Transporter, M.V. (Can.)	Steel	1719		251	43	16.4						Tanker	20,500 B bls.				1936	Gayport Shipping, Ltd. Toronto, Ont.
Ojibway	Steel	53		64	22	8.7						Supply Boat					1946	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Olcott, Wm. J.	Steel	7899	12400	580	58.2	32	Arch	Side	35	12	12 4450	12 3850	11 4200				1910	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Olds, Irving S.	Steel	10294	12650	622.6	67.2	35	Arch	Side	18	24	6 6100	6 5250	6 6300				1942	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Ontadoc (Can.)	Steel	4467	6900	416	50	28	Arch	Side	12	24	3 1750	3 1600	3 1600	3 1950			1903	Paterson S. S., Ltd. Fort William, Ont.
Ornefjell (Norw)	Steel	1530		246	37.9	18.2			2		1	1					1929	Great Lakes Transatlantic, Inc. Chicago, Ill.
Osler (Can.)	Steel	7051	7500	491.3	56	31	Self Arch	Unlo ader	14	24	2 550	3 1800	3 1700	3 1700	3 1750		1907	Canada S. S. Lines, Ltd. Montreal, Quebec



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## GENERAL DIMENSIONS OF LAKE VESSELS

125

Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Outarde (Can.)	Steel	2222	3000	248	43	25			6	24	2 1000	2 1000	2 1000				1924	Que. & Ont. Transp. Co., Ltd. Montreal, Quebec
Paine, Wm. A.	Steel	5798	8500	480	52	30	Arch	Side	23	12	7 2400	7 1700	7 2100	7 2300			1905	Hutchinson & Co. Cleveland, Ohio
Paisley, Robt. J.	Steel	4260	6600	410	48	28	Self	Unloader	11	24	3 1600	3 1800	3 1800	2 1400			1901	Morrow S. S. Co. Cleveland, Ohio
Palmer, Wm. P.	Steel	7602	12800	580	58.2	32	Arch	Side	33	12	10 4450	12 3950	11 4400				1910	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Panoil	Steel	1370		242.5	36.9	19.7		8				TAN	KER	- 16,666 Bbls.			1920	Great Lakes Transport Corp. Detroit, Mich.
Papercarrier (Can.)	Steel	243	230	113	22.3	8.6			3		3						1936	Que. Paper Sales & Transp. Co. Ltd., Quebec, Quebec
Paratex (M.V.)	Steel	1541		250.5	43	17.6		12				TAN	KER	- 20,000 Bbls.			1938	Gulf Oil Corp. New York, N. Y.
Pargny, Eugene W.	Steel	8363	13700	530	60	32	Arch	Side	35	12	12 4850	12 4150	11 4700				1917	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Pathfinder	Steel	6751	10500	530	60.2	31	Arch	Side	16	24	5 3800	6 2900	5 3800				1906	Interlake S. S. Co. Cleveland, Ohio
Paul, Chas. A.	Steel	6297	9300	520	54	31	Arch	Side	16	24	4 2600	4 2300	4 2300	4 2600			1907	The Wilson Transit Co. Cleveland, Ohio
Pearson	Wood	297		123	26.6	6.7						Bulk	Sand				1921	Harold L. Baldwin Detroit, Mich.
Penetang (Can.)	Steel	1824	2600	252	43	19	Arch		6	24	3 1250	3 1350					1925	Canada S. S. Lines, Ltd. Montreal, Quebec
Penobscot	Steel	3943	5200	454	44.5	26.7	Arch		13	24		Auto	Carrier				1895	Nicholson Universal Steamship Co., Inc., Detroit, Mich.
Perkins, Geo. W.	Steel	6553	11100	556.2	56.4	31	Arch	Side	17	24	9 5700	8 5400					1905	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Perseus	Steel	4978	8200	462	50	28	Arch		14	24	3 1900	4 2200	4 2200	3 1900			1905	Nicholson Transit Co. River Rouge, Mich.
Petroheat (M.V.)	Steel	2345	2500	300	43.4	23	Arch		10		10 Comp.						1939	Petroleum Heat & Power Co. New York, N. Y.
Phipps, Henry	Steel	7703	12500	586.5	58.2	32	Arch	Side	18	24	6 4450	6 3800	6 4250				1907	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Pickands, Colonel James	Steel	8151	12000	586.3	60.2	32	Arch	Side	18	24	6 4500	6 3300	6 4200				1926	Interlake S. S. Co. Cleveland, Ohio
Pierce, Daniel	Steel	4887	7500	399.6	53	28		22				Tanker 48,000 Bbls.						Sairincl Refining Co., New York, N. Y.

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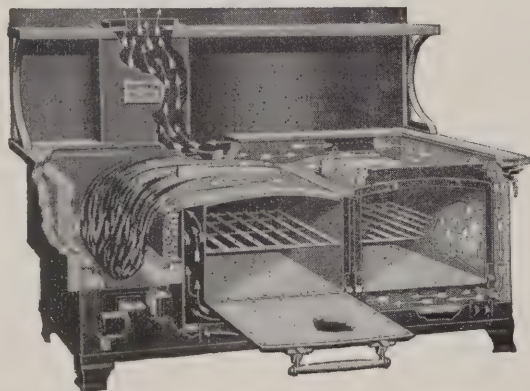
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## GENERAL DIMENSIONS OF LAKE VESSELS

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Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Pillsbury, John S. (Can.)	Steel	1754	2400	253	43.1	20 1/4	Arch		7	24	3 1100	4 1300					1926	Upper Lakes & St. Lawrence Transp. Co., Ltd., Toronto, Ont.
Pinebay (Can.)	Steel	1222	1600	229.7	34.1	14.7	Arch	Package	3	Freight	1 650	1 500	1 450				1919	Tree Line Navigation Co., Ltd. Montreal, Quebec
Pinebranch (Can.)	Steel	1984		246.3	40	24.9						TAN	KER	- 25,700	Bbls.		1895	Marine Industries, Ltd. Sorel, Quebec
Pine Ridge	Steel	717		154	35	14						Self	Unloader					Nicholson Universal S. S. Co. Detroit, Mich.
Pioneer	Steel	6316	9300	504	54.2	31	Arch	Side	29	12	7 2600	8 2900	8 2000	6 2700			1907	Cleveland-Cliffs Iron Co. Cleveland, Ohio
Plattsburg Socony (M.V.)	Steel	1242		251.3	40			7				TAN	KER	- 14,285	Bbls.		1934	Socony Vacuum Oil Co., Inc. New York, N. Y.
Poe, Gen. Orlando M.	Steel	4835	7600	470	50	29	Arch	Side	15	24	15 7600						1900	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Polaris	Steel	3749		316	50	25.2	Weld-ed	Cargo 5	Tank 10			TAN	KER	- 35,000	Bbls.		1945	Cleveland Tankers, Inc. Cleveland, Ohio
Pollock, W. G.	Steel	4872	7300	420	52	28	Arch	Side	23	12	5 1700	6 1700	6 1800	6 2100			1906	Midland S. S. Line Cleveland, Ohio
Polcrest (Norw. S. S.)	Steel	1332		258	42				4			Package	Freight				1939	Swedish American Lines Montreal, Quebec
Polykarp (Norw. S. S.)	Steel	1350		258	42				4			Package	Freight				1938	Swedish American Lines Montreal, Quebec
Pomeroy, Robt. W. (Can.)	Steel	1724	2400	253	43.1	20	Arch		7	24	3 1100	4 1300					1923	Upper Lakes & St. Lawrence Transp. Co., Ltd., Toronto, Ont.
Ponoka (Can.)	Iron	1506	1800	247.9	36.6	17.10			6	24	6 1800						1880	United Towing & Salvage Co., Ltd., Montreal, Quebec
Pontiac	Steel	8200	11700	580	60	32	Arch	Side	18	24	4 3300	5 2700	5 2700	4 3000			1917	Cleveland-Cliffs Iron Co. Cleveland, Ohio
Pope, E. C.	Steel	2787	3500	322.8	42.2	24	Arch		4		4 3500						1891	Nicholson Transit Co. River Rouge, Mich.
Poplarbranch (Can.) (M.V.)	Steel	2415	3600	251.3	43.9	20						TAN	KER				1944	Marine Industries, Ltd. Sorel, Quebec
Post, G. G.	Steel	3555	6000	352.9	48.2	23	Seli Arch	Unl	ader 3		1 1700	1 2700	1 1600				1902	Columbia Transp. Co. Cleveland, Ohio
Poughkeepsie Socony (M.V.)	Steel	1235		251.3	40			7				TAN	KER	- 16,428	Bbls.		1934	Socony Vacuum Oil Co., Inc. New York, N. Y.
Prescodoc (Can.)	Steel	2100	3100	253	43.4	20	Arch		6	24	2 1350	2 800	2 950				1929	Paterson S. S. Ltd. Fort William, Ont.



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## GENERAL DIMENSIONS OF LAKE VESSELS

129

Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Prescott (Can.)	Steel	5461	8800	488	50	28			15	24	2600	4 2100	4 2100	3 2000			1903	Canada S. S. Lines, Ltd. Montreal, Quebec
Presque Isle	Steel	4578	6400	406	50	28	Arch		12	24	3 1700	3 1500	3 1500	3 1700			1898	Presque Isle Transp. Co. Cleveland, Ohio
Princeton	Steel	4473	7000	454	50	28.6	Arch	Side	13	24	3 1600	4 2100	4 2000	2 1300			1900	Buckeye S. S. Co. Cleveland, Ohio
Prindoc (Can.)	Steel	3851	6300	380	50	28	Arch	Side	20	12	5 1800	8 2100	7 2400				1902	Paterson S. S. Ltd. Fort William, Ont.
Providence Socony (M.V.)	Steel	1199		252.9	40.1			7				TAN	KER	- 13,	500 B	bls.	1924	Socony Vacuum Oil Co., Inc. New York, N. Y.
Purnell, Frank	Steel	9057	14850	603.8	60.2	35	Arch	Side	18	24	4 3950	5 3300	5 3400	4 4200			1943	Interlake S. S. Co. Cleveland, Ohio
Quedoc (Can.)	Steel	3072	5000	346	40	24			6	24	3 2500	3 2500					1890	Paterson S. S., Ltd. Fort William, Ont.
Queenston (Can.)	Steel	1926	2600	253	43	20	Arch		7	24	4 1400	3 1200						Colonial S. S. Co., Ltd., Port Colbourne, Ont.
Rammacher, John J. (Can.)	Steel	1723	2400	253	43.1	20	Arch		7	24	3 1100	4 1300					1923	Upper Lakes & St. Lawrence Transp. Co., Ltd., Toronto, Ont.
Rand, Geo. F.	Steel	7510	9700	538.3	58.2	31	Self Arch	Unloader Side	28	12	8 2900	5 1725	5 1725	5 1725	5 1625		1911	Boland & Cornelius Buffalo, N. Y.
Randall, Clarence B.	Steel	9057	14850	603.8	60.2	35	Arch	Side	18	24	4 3950	5 3300	5 3400	4 4200			1943	Hutchinson & Co. Cleveland, Ohio
Ranney, Rufus P.	Steel	4797	7200	425.1	52	28	Arch	Side	12	24	3 2100	3 1500	3 1500	3 2100			1908	Tomlinson Fleet Cleveland, Ohio
Ream, Norman B.	Steel	7650	12050	587.1	58.3	32	Arch	Side	18	24	6 4250	6 3700	6 3900				1906	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Redcloud (Can.) (M.V.)	Steel	1740	3400	248	43.6	15	Arch	Side	4		1 850	1 850	1 850	1 850			1930	N. American Transports, Ltd. Montreal, Quebec
Red Crown	Steel	5443		453.4	55.2	28		8				TAN	KER	- 66,	681 B	bls.	1937	Standard Oil Co. (Indiana) Chicago, Ill.
Redfern (Can.) (M.V.)	Steel	1770	3400	248	43.6	15	Arch	Side	4		1 850	1 850	1 850	1 850			1930	N. American Transports, Ltd. Montreal, Quebec
Redriver (Can.) (M.V.)		1777	3400	248	43.6	15	Arch	Side	4		1 850	1 850	1 850	1 850			1930	N. American Transports, Ltd. Montreal, Quebec
Redwood (Can.) (M.V.)		1777	3400	248	43.6	15	Arch	Side	4		1 850	1 850	1 850	1 850			1930	N. American Transports, Ltd. Montreal, Quebec
Regent (M.V.)	Steel	1211		247	40	14.6						TAN	KER	- 16,	000 B	bls.	1934	Gulf Oil Corp. New York, N. Y.

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## GENERAL DIMENSIONS OF LAKE VESSELS

131

Name	Built of	Ton- nage	Capa- city	DIMENSIONS			Con- struc- tion	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				L.gth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Reiss Brothers	Steel	8195	12000	588	60.3	32	Arch	Side	18	24	4 2500	5 3400	5 3400	4 2500			1924	The Reiss S. S. Co. Sheboygan, Wisc.
Reiss, Clemens A.	Steel	4378	7000	437.5	50.2	28.6	Arch	Side	13	24	3 1500	2 1000	4 2100	4 2400			1901	The Reiss S. S. Co. Sheboygan, Wisc.
Reiss, J. L.	Steel	5398	7750	489	52.2	30	Self Arch	Unlo- ader Side	13	24	3 1800	1 600	2 1150	3 1700	2 1250	2 1250	1906	The Reiss S. S. Co. Sheboygan, Wisc.
Reiss, John P.	Steel	6432	9500	504	54	30	Arch	Side	30	12	7 2600	8 2000	7 2000	8 2000			1910	The Reiss S. S. Co. Sheboygan, Wisc.
Reiss, Otto M.	Steel	4511	7300	430	52.2	28	Arch	Side	23	12	5 1700	6 1700	6 1800	6 2100			1906	The Reiss S. S. Co. Sheboygan, Wisc.
Reiss, Peter	Steel	6578	9000	504	54	30	Arch	Side	29	12	1 1350	2 650	3 1950	4 1350	5 1350	6 1600	1910	The Reiss S. S. Co. Sheboygan, Wis.
Reiss, Richard J.	Steel	9057	14850	595	60	35	Arch	Side	18	24	4 3950	5 3300	5 3400	4 4200			1943	The Reiss S. S. Co. Sheboygan, Wisc.
Reiss, Wm. A.	Steel	8345	12600	592	62	32	Arch	Side	18	24	4 3100	5 3200	5 3200	4 3100			1925	The Reiss S. S. Co. Sheboygan, Wisc.
Renvoyle (Can.)	Steel	3571	5000	379	44.3	27	Arch	Side	10	24		Pack- age Freight					1925	Canada S. S. Lines, Ltd. Montreal, Quebec
Reynolds, Walter B. (Can.)	Steel	1905	2600	253	43.2	20			6	24	3 1300	3 1300					1927	Hall Corp. of Canada Montreal, Quebec
Richards, John B. (Can.)	Steel	1743	3000	253	43.1	20	Arch		7	24	3 1400	4 1600					1925	Upper Lakes & St. Lawrence Transp. Co., Ltd., Toronto, Ont.
Richardson, W. C.	Steel	4937	7300	420	52.2	29	Arch		12	24	3 1800	3 1700	3 1700	3 2100			1908	Columbia Transp. Co. Cleveland, Ohio
River Shell M.S. (Can.)	Steel	836		179	34	15					TAN	KER	- 11,000	Bbls.			1933	Shell Canadian Tankers, Ltd. Toronto, Ontario
Roberts, Percival Jr.	Steel	7748	12900	580	58	32	Arch	Side	34	12	11 4550	12 4900	11 4300				1913	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Robinson, C. S.	Steel	6829	10000	525	55	31	Arch	Side	31	12	9 3300	12 3300	10 3400				1906	Interlake S. S. Co. Cleveland, Ohio
Robinson, T. W.	Steel	7726	11000	572.6	60.2	32	Self Arch	Unlo- ader Side	31	12	7 2700	6 1800	5 1700	8 3200	5 1600		1925	Michigan Limestone Div. U.S.S. Co., Rogers City, Mich.
Rockliffe Hall (Can.)	Steel	1900	2700	253	43.4	20.6	Arch		6	24	3 1350	3 1350					1928	Hall Corp. of Canada Montreal, Quebec
Rocket	Steel	3327		349	43	26		9				TAN	KER	- 42,000	Bbls.		1913	Cleveland Tankers Inc. Cleveland, Ohio
Rockwood	Steel	1290	1600	220	40	16						Sund	Sucker				1899	Kelley Is. Lime & Trans. Co. Sandusky, Ohio



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## GENERAL DIMENSIONS OF LAKE VESSELS

133

Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Rogers, Henry H.	Steel	7718	12400	586.5	58.2	32	Arch	Side	18	24	6 4450	6 3850	6 4200				1906	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Rome Socony (M.V.)	Steel	1199		252.9	40.1			7				TAN	KER	- 14.	174 B	bls.	1924	Socony Vacuum Oil Co., Inc. New York, N. Y.
Roseleaf (Can.)	Steel	595	600	160	32	11											1915	Marine Industries, Ltd. Montreal, Que.
Royalton (Can.)	Steel	7164	12000	536.6	58	31	Arch	Side	31	12	6 2600	5 2000	5 1800	5 1700	5 1800	5 2100	1924	Colonial S. S., Ltd. Port Colborne, Ont.
Rutenfjell (Norw)	Steel			258	42	22											1936	Great Lakes Transatlantic, Inc. Chicago, Ill.
Sandcraft	Steel	2054	3000	261	43.6	20											1918	Construction Aggregates, Corp. Chicago, Ill.
Sandland (Can.)	Steel	2213	2000	250.8	42.8	16.3											1925	Sandland, Ltd. Montreal, Quebec
Sandmaster	Steel	1849	3000	251	43.5	20											1918	Construction Aggregates, Corp. Chicago, Ill.
Sandy	Steel	14		41	11	6					Supply	Boat					1940	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Saracen (Can.)	Steel	1926	2900	253	42.2	20	Arch		6	24	3 1400	3 1500					1929	Inland Lines, Ltd. Montreal, Quebec
Saskadoc (Can.)	Steel	4611	6800	416	50	28	Arch	Side	22	12	5 1700	6 1600	6 1500	5 2000			1900	Paterson S. S., Ltd. Fort William, Ont.
Sault Ru Mouton (Can.)	Steel	450		158.4	32	11.3											1945	Quebec Paper Sales & Transp. Co., Ltd., Quebec, Quebec
Saunders, Edw. N. Jr.	Steel	6436	9500	504	55	30	Arch	Side	29	12	8 2700	7 1900	7 2200	7 2700			1908	Midland S. S. Line Cleveland, Ohio
Schenectady Socony (M.V.)	Steel	1199		252.9	40.1			7				TAN	KER	- 16.	349 B	bls.	1924	Socony Vacuum Oil Co., Inc. New York, N. Y.
Schiller, Wm. B.	Steel	7739	12300	580	58	32	Arch	Side	35	12	12 4350	12 3750	11 4200				1910	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Schneider, Cletus	Steel	3528	5800	370.8	50.2	28	Arch		10	24	2 1100	3 1800	3 1800	2 1100			1902	Schneider Transp. Co. Cleveland, Ohio
Schneider, Pam	Steel	3762	5800	370.8	50.2	28	Arch		10	24	1100	1800	1800	1100			1903	Schneider Transp. Co. Cleveland, Ohio
Schoellkopf, J. F. Jr.	Steel	7264	10000	531.2	56.2	32	Self Arch	Unloader Side	29	12	7 2900	4 1350	4 1350	4 1350	10 3050		1907	Boland & Cornelius Buffalo, N. Y.
Schoonmaker, Col. J. M.	Steel	8603	12600	590	64.2	33	Arch	Side	18	24	6 4600	6 3600	6 4400				1911	Shenango Furnace Co. Cleveland, Ohio

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## GENERAL DIMENSIONS OF LAKE VESSELS

135

Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Schwab, Chas. M.	Steel	7935	12000	586.3	60.2	32	Arch	Side	18	24	6 4500	6 3300	6 4200				1923	Interlake S. S. Co. Cleveland, Ohio
Schwartz, K. V.	Steel	1316	2400	246.5	38							Sand	and	Gravel			1884	Schwartz Sand & Gravel Co. Cleveland, Ohio
Scobell, Jos. S.	Steel	1445	3000	266	38.2	24			2		1 956Y	1 ds. 90	5 Yds.	Sand	Sucker		1891	Erie Sand & S. S. Co. Erie, Pa.
Scotiadoc (Can.)	Steel	4093	6800	416	50	28	Arch	Side	23	12	5 1800	6 1500	6 1500	6 2000			1904	Paterson S. S. Co., Ltd. Fort William Ont.
Secord, Capt. C. D. (Can.)	Steel	6921	9000	542.3	50.1	33.6	Arch	Side	16	24	3 1550	3 1800	3 1600	4 1800	3 2250		1900	Mohawk Nav. Co., Ltd., Montreal, Quebec
Selkirk (Can.)	Steel	2384	2200	250	42.9	26.6	Package	Freight	6	24	2 900	2 600	2 700				1926	Canada S. S. Lines, Ltd. Montreal, Quebec
Sellwood, Jos.	Steel	6741	10000	525	55	31	Arch	Side	31	12	9 3300	12 3300	10 3400				1906	Interlake S. S. Co. Cleveland, Ohio
Sensibar, J. R.	Steel	7179	9000	537.8	56.2	31	Self Arch	Unloader	28	12	4 1200	5 1550	6 2000	5 1750	4 1400	4 1100	1906	Columbia Transp. Co. Cleveland, Ohio
Servishell (Can.)	Steel	14.48		39	11.2	6.8						TAN	KER	- 100	Bbls.		1937	Shell Canadian Tankers, Ltd. Toronto, Ontario
Seubert, Edw. G.	Steel	4432		390	53.5	27		7				TAN	KER	- 50,	720 B	bbls.	1930	Standard Oil Co. (Indiana) Chicago, Ill.
Shasta	Steel	3698	6300	380	50	28	Arch	Side	11	24	3 1800	3 1650	3 1500	2 1350			1902	Shasta S. S. Co. Buffalo, N. Y.
Shaughnessy, Sir Thomas (Can.)	Steel	5846	9000	486.7	51.5	30.5	Arch	Side	28	12	5 1500	5 1500	5 1500	4 1500	5 1500	4 1500	1906	Mohawk Nav. Co., Ltd. Montreal, Quebec
Shaw, Howard L. (Can.)	Steel	4241	7000	438.5	51.6	28	Arch	Side	14	24	3 1700	4 1800	4 1900	3 1600			1900	Upper Lakes & St. Lawrence Transp. Co., Ltd. Toronto, Ont.
Sheadle, J. H.	Steel	6838	10300	513	60.2	31	Arch	Side	30	12	7 2500	8 2600	7 2600	8 2600			1905	Cleveland-Cliffs Iron Co. Cleveland, Ohio
Shelter Bay (Can.)	Steel	1670	2600	250	42.10	19.4	Arch		6	24	3 1400	3 1200	Paper	Carrier			1922	Que. & Ont. Transp. Co., Ltd. Montreal, Quebec
Shenango	Steel	8047	11500	580.8	58.2	32	Arch	Side	18	24	4 3300	5 2700	5 2800	4 2700			1909	Shenango Furnace Co. Cleveland, Ohio
Sherwin, John	Steel	6979	9600	520.5	54	31	Arch		16	24	4 2600	4 2200	4 2200	4 2600			1906	Interlake S. S. Co. Cleveland, Ohio
Shiras, MacGilvray	Steel	4077	6700	420	50	28	Arch	Side	12	24	3 1600	3 1700	3 1700	3 1700			1904	Kinsman Transit Co. Cleveland, Ohio
Sierra	Steel	4846	6000	438.7	52	28	Self Arch	Unloader	13	24	3 1000	3 1600	3 1600	2 1000	2 800		1906	Columbia Transp. Co. Cleveland, Ohio





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## GENERAL DIMENSIONS OF LAKE VESSELS

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Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Siljan (Swed. ) (M.V.)	Steel	1546		258	42				4		Pack age Fr eight						1947	Swedish American Lines Montreal, Quebec
Simcoe (Can.)	Steel	1783	2200	250	42.6	20.6	Arch	Side	6	24	850	1350					1906	Canada S. S. Lines, Ltd. Montreal, Quebec
Sinaloa	Steel	4539	6000	423	50	28	Self	Unlo	ader	23	12	5 1200	6 1650	6 1600	6 1550		1903	Boland & Cornelius Buffalo, N. Y.
Sloan, Geo. A.	Steel	9057	15100	603.8	60.2	35	Arch	Side	18	24	4 4000	5 3350	5 3450	4 4300			1943	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Smith, Edmund P.	Steel	6035	8800	480	54.2	30.1	Arch	Side	14	24	3 2000	3 1800	4 2400	4 2600			1907	Boland & Cornelius Buffalo, N. Y.
Smith, Hurlbut W.	Steel	4662	6800	414	50	28	Arch		12	24	3 1700	3 1700	3 1600	3 1800			1903	Great Lakes S. S. Co. Cleveland, Ohio
Smith, Lyman C.	Steel	6200	10000	525	55.2	31	Arch	Side	31	12	8 2800	8 2500	7 2200	8 2500			1905	Great Lakes S. S. Co. Cleveland, Ohio
Snyder, Wm. P. Jr.	Steel	8603	12600	590	64.2	33	Arch	Side	18	24	6 4600	6 3600	6 4400				1912	Shenango Furnace Co. Cleveland, Ohio
Sonora	Steel	3611	5100	353.2	48	28	Arch		10	24	3 1600	4 1900	3 1600	Auto	Carrier		1902	Nicholson Transit River Rouge, Mich.
Soodoc (Can.)	Steel	4575	6800	416	50	28	Arch		12	24	3 1900	3 1500	3 1500	3 1900			1902	Paterson S. S., Ltd. Fort William, Ont.
Soreldoc (Can.)	Steel	1938	3100	253	43.2	20	Arch		6	24	3 1500	3 1500					1929	Paterson S. S., Ltd. Fort William, Ont.
Spruce Bay (Can.)	Steel	1238	1600	218	34.2	14.9	Arch		3		1 650	1 500	1 450				1920	Canada S. S. Lines, Ltd. Montreal, Quebec
Sprucebranch (Can.)	Steel	2405	3600	251.5	43.9	20.						TAN KER						Branch Lines Limited Montreal, Que.
Stackhouse, Powell	Steel	6171	9800	504	54.2	30	Arch	Side	16	24	5 3200	5 3000	6 3600				1905	Bethlehem Transp. Corp. Cleveland, Ohio
Stadacona (Can.)	Steel	9181	12200	582	60	32	Arch	Side	18	24	2400	2050	1950	1950	1900	1950	1929	Canada S. S. Lines, Ltd. Montreal, Quebec
Standard Portland Cement	Steel	5141	8400	444	56.2	28	Arch	Side	13	24	4 2600	5 3000	4 2300				1909	Boland & Cornelius Buffalo, N. Y.
Stanley, Robt. C.	Steel	9057	15100	603.8	60.2	35	Arch	Side	18	24	4 4000	5 3350	5 3450	4 4300			1943	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Stanton, John	Steel	6318	9500	504	54	30	Arch	Side	30	12	10 3300	10 2500	10 3700				1905	Hutchinson & Co. Cleveland, Ohio
Starbuck (Can.)	Steel	2025	2500	267.6	38	24.6			7	24		3	C omp.				1888	Powell Transports, Ltd. Fort William, Ont.

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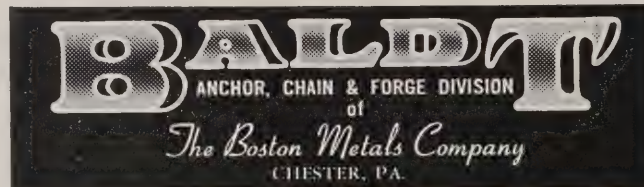
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## GENERAL DIMENSIONS OF LAKE VESSELS

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Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Starmount (Can.)	Steel	1859	2550	252	43	19			6	24	2 900	2 750	2 900				1923	Canada S. S. Lines, Ltd. Montreal, Quebec
(M.V.) (Can.)																		
Steel Electrician	Steel	1695	3000	250.3	42.9	17.3	Arch		2		1 1600	1 1400					1926	Paterson S. S. Ltd. Fort William, Ont.
Steel King	Steel	3248	4800	325	44	28.2	Pig	& Scrap Iron			1 1400	1 1700	1 1700				1897	Nicholson Transit Co. River Rouge, Mich.
Steelton	Steel	9057	14850	603.8	60.2	35	Arch	Side	18	24	4 3950	5 3300	5 3400	4 4200			1943	Bethlehem Transp. Co. Cleveland, Ohio
Steinbrenner, Henry	Steel	4345	6900	426.2	50	28	Arch	Side	12	24	3 1900	3 1500	3 1500	2 2000			1901	Kinsman Transit Co. Cleveland, Ohio
Stephenson, Geo.	Steel	3884	6200	407.4	49	28	Arch	Side	12	24	3 1500	3 1600	3 1600	3 1500			1896	Buckeye S. S. Co. Cleveland, Ohio
Stewart, James (Can.)	Steel	1760	2400	253	43.1	20	Arch		7	24	3 1100	4 1300					1926	Upper Lakes & St. Lawrence Transp. Co., Ltd., Toronto, Ont.
Stewart, Robt. W.	Steel	4161		379.5	52.2	25		7					TAN KER	- 50, 542 B bls.			1928	Standard Oil Co. (Indiana) Chicago, Ill.
Stewart, Wm. J. (Can.)	Steel	1295		214	36	23.6											1932	Dept. of Marine & Fisheries Ottawa, Ont.
Stifel, Wm. F.	Steel	4871	7700	420	52	28	Arch		12	24	3 2000	3 1900	3 1900	3 1900			1908	Columbia Transp. Co. Cleveland, Ohio
Stone, Amasa	Steel	6282	10000	525	55.2	31	Arch	Side	31	12	9 3300	12 3300	10 3400				1905	Interlake S. S. Co. Cleveland, Ohio
Stuart, M. H.	Wood	192		100	25	9.3											1921	The Roen S. S. Co. Sturgeon Bay, Wisc.
Sullivan Brothers	Steel	4378	7800	437.5	50.2	28.6	Arch	Side	13	24	3 1500	2 1300	4 2500	4 2500			1901	Gartland S. S. Co. Chicago, Ill.
Sullivan, J. J.	Steel	7077	10200	532	56	31	Arch	Side	32	12	10 3700	12 2800	10 3700				1907	Hutchinson & Co. Cleveland, Ohio
Sultana	Steel	3613	5100	353.2	48	28	Auto Arch	Carrier	10	24	3 1600	4 1900	3 1600				1902	Nicholson Transit River Rouge, Mich.
Sumatra	Steel	4118	5000	405.4	48	28	Self	Unloader	13	24	4 1050	3 1300	3 1600	3 1050			1897	Tomlinson Fleet Cleveland, Ohio
Superior (Can.)	Steel	1774	2500	248.6	38.6	23			6	24	3 1250	3 1250	Pack age	Freight			1889	Northwest S. S., Ltd. Toronto, Ont.
Supertest (Can.) (M.V.)	Steel	151		101.3	20	7.6							TAN KER				1928	Pioneer Transp. Co., Ltd. London, Ontario
Supreme (M.V.)	Steel	890		212	37	13.9		10					TAN KER	- 11, 075 B bls.			1931	Gulf Oil Corp. New York, N. Y.



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## GENERAL DIMENSIONS OF LAKE VESSELS

141

Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
vanfjell (Norw)	Steel			258	42	22											1936	Great Lakes Transatlantic, Inc. Chicago, Ill.
weden	Steel	4702	7000	414	50	23	Arch		12	24	3 1800	3 1800	3 1600	3 1800			1902	Great Lakes S. S. Co. Cleveland, Ohio
ykes-Wilfred	Steel	12730	21500	650	70	37	Arch	D	19	24	6 7140	7 7760	6600				1949	Inland Steel Cleveland, Ohio
ylvanik	Steel	6272	10100	504	54	30	Arch	Side	30	12	8 2600	7 2400	7 2500	8 2600			1905	The Tomlinson Fleet Cleveland, Ohio
ampico	Steel	1894	2700	246	42	24	Arch		2								1900	Nicholson Transit Co. River Rouge, Mich.
aplin, Frank E.	Steel	4650	7100	427.2	52.2	28	Arch	Side	23	12	5 1800	6 1700	6 1800	6 2100			1907	Gartland S.S. Co. Chicago, Ill.
ate, Ben E.	Steel	3954	6060	362.8	50	23	Self Arch	Unloader	10	24	3 1500	2 1400	2 1300	3 1800			1902	Paisley S. S. Co., J. A. Cleveland, Ohio
aurus	Steel	1199		252.9	40.1			7			TAN	KER	- 16,	419 B	bls.		1924	Socony Vacuum Oil Co., Inc. New York, N. Y.
aylor, B. H.	Steel	7318	10000	536.5	60.2	32	Self Arch	Unloader	30	12	10 3200	5 2100	5 2100	10 2600			1923	Michigan Limestone Div. U.S.S. Co., Rogers City, Mich.
aylor, Myron C.	Steel	7945	13300	588.3	60.2	32	Arch	Side	18	24	6 4750	6 4000	6 4550				1929	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
aylor Shirley G. (Can.)	Steel	1746	3000	253	43.1	20	Arch		7	24	3 1400	4 1600					1925	Upper Lakes & St. Lawrence Transp.Co., Ltd., Toronto, Ont.
Teakbay (Can.)	Steel	1095	3000	253	43.8	20.6	Arch		6	24	3 1500	3 1500	Pack	age	Freight		1929	Canada S. S. Lines, Ltd. Montreal, Quebec
Texaco Brave (Can.)	Steel	1926		250	43.2	18					TAN	KER	- 21,	500 B	bls.		1929	McColl-Frontenac Oil Co., Ltd. Toronto, Ontario
Texaco Chief (Can.)	Steel	2500		250	43.4	24.6					TAN	KER	- 28,	000 B	bls.		1930	McColl-Frontenac Oil Co., Ltd. Toronto, Ontario
Texaco Warrior (Can.)	Steel	2500		250	43.4	24.6					TAN	KER	- 28,	000 B	bls.		1930	McColl-Frontenac Oil Co., Ltd. Toronto, Ontario
Thomas, Eugene P.	Steel	7860	13500	588.3	60.2	32	Arch	Side	15	24	6 4800	6 4100	6 4600				1930	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Thompson, Carmi A.	Steel	7038	10000	525	58	31	Arch	Side	32	12	8 2500	8 2500	8 2500	8 2500			1917	Midland S. S. Line Cleveland, Ohio
Thompson, David P.	Steel	7612	11000	554	58.2	32	Arch	Side	33	12	8 3000	8 2300	9 2600	8 3100			1907	Hutchinson & Co. Cleveland, Ohio
Thompson, Smith	Steel	4786	7800	438.7	52	28	Arch		13	24	3 1900	3 1800	3 1900	4 2300			1907	Great Lakes S. S. Co. Cleveland, Ohio

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## GENERAL DIMENSIONS OF LAKE VESSELS

143

Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Light.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Thorold (Can.)	Steel	1689	2600	250	43	19.4	Paper	Carrier	6	24	3 1400	3 1200					1922	Quebec & Ontario Transp. Co., Ltd., Montreal, Quebec
Thunder Bay Quarries	Steel	6493	9300	511.5	54.1	30	Self Arch	Unloader	14	24	3 2200	3 1900	2 1300	4 2400	2 1500		1907	Boland & Cornelius Buffalo, N. Y.
Tomlinson, G. A.	Steel	6361	9500	504	54	30	Arch	Side	30	12	7 2700	8 1900	8 2200	7 2700			1909	Hutchinson & Co. Cleveland, Ohio
Townsend, Edw. Y.	Steel	7433	11800	586	53	32	Arch	Side	18	24	6 4200	6 3600	6 4000				1906	Bethlehem Transp. Co. Cleveland, Ohio
Townsend Paul H. (M.V.)	Steel	6020		321	50	29		Cement Carrier									1945	Huron Portland Cement Co. Detroit, Mich.
Transbay (Can.)	Steel	949		166	36	15						TAN	KER	- 10,000	Bbls.		1912	Transit Tankers & Terminals, Ltd., Montreal, Quebec
Transford II (M.V.)	Steel	1703		245	40.1	18.7		14				TAN	KER	- 19,000	Bbls.		1920	American Petroleum Transp. Corp., New York, N. Y.
Transinland, M. V. (Can.)	Steel	1946	3000	250.3	42.9	17				Tanker		TAN	KER	22,000	Bbls.		1926	Transit Tankers & Terminals, Ltd., Montreal, Que.
Transiter (Can.)	Steel	1117		180	34	17.6						TAN	KER				1935	Transit Tankers & Terminals, Ltd., Montreal, Quebec
Translake (Can.)	Steel	1263		219.5	34.2	12	Arch		3			TAN	KER	- 12,500	Bbls.		1921	Transit Tankers & Terminals, Ltd., Montreal, Quebec
Transoil (M.V.)	Steel	1571		251.3	43	16.4		14				TAN	KER	- 20,500	Bbls.		1936	American Petroleum Transport Corp., New York, N. Y.
Transriver (Can.)	Steel	1233		219.5	34.2	13.9	Arch		3			TAN	KER	- 12,500	Bbls.		1920	Transit Tankers & Terminals, Ltd., Montreal, Quebec
Transtream (Can.)	Steel	1335		242	34	15.6						TAN	KER	- 18,000	Bbls.		1935	Transit Tankers & Terminals, Ltd., Montreal, Quebec
Traverse City Socony (M.V.)	Steel	2031		230.3	49.6	20.6		6				TAN	KER	- 23,794	Bbls.		1938	Socony Vacuum Oil Co., Inc. New York, N. Y.
Trevisa (Can.)	Steel	1813	2909	250	42.5	17.4	Arch		6	24	2 1100	2 1100	2 700				1915	Keystone Transports, Ltd. Montreal, Quebec
Trimble, Richard	Steel	7745	12900	580	58	32	Arch	Side	34	12	11 4550	12 4000	11 4300				1913	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Troisdock (Can.)	Steel	2100	3100	253	43.2	24	Arch		6	24	2 1350	2 800	2 950				1929	Paterson S. S., Ltd. Fort William, Ont.
United States Gypsum	Steel	6612	9100	511.1	56.2	30	Self Arch	Unloader	26	12	2 1320	2 650	2 630	6 1875	7 2175	7 2450	1910	Boland & Cornelius Buffalo, N. Y.
Upson, Andrew S.	Steel	4442	6300	380	52	28	Arch		19	12	6 2000	7 2300	6 2000				1909	Buckeye S. S. Co. Cleveland, Ohio



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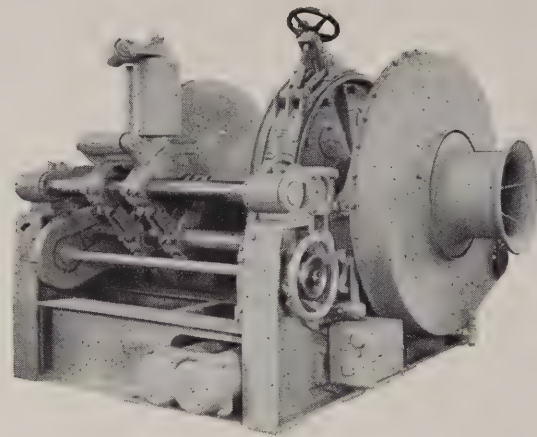
Tower 1-3197

## GENERAL DIMENSIONS OF LAKE VESSELS

145

Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Upson, J. E.	Steel	6309	9500	504	54	30	Arch	Side	30	12	7 2400	8 2400	7 2000	4 2700			1908	The Wilson Transit Co. Cleveland, Ohio
Valley Camp (Can.)	Steel	2351	2700	252	43	25.6		Self Unloader	13	12	5 1000	4 900	4 800				1927	Valley Camp Coal Co. of Can. Ltd., Toronto, Ontario
Vandoc (Can.)	Steel	4488	6800	408	50	28	Arch		22	12	5 1700	6 1600	6 1500	5 2000			1898	Paterson S. S., Ltd. Fort William, Ont.
Vardefjell (Norw)	Steel	1530		246	37.9	18.2			2		1	1					1931	Great Lakes Transatlantic, Inc. Chicago, Ill.
Venus	Steel	3719	5600	346	48	28	Arch		3		3 5600		Steel	& Scrap			1901	Boland & Cornelius Buffalo, N. Y.
Verona	Steel	5880	8500	480	52	30	Arch	Side	28	12	7 2400	7 1800	7 1700	7 2600			1907	Interlake S. S. Co. Cleveland, Ohio
Victoria	Steel	596		122	36	11							Sand				1917	Lyons Construction Co. Whitehall, Mich.
Victorious (Can.)	Steel	4527	7000	459.6	48	28	Arch		14	24	2 1100	3 1300	3 1300	3 1700	3 1600		1895	Upper Lakes & St. Lawrence Transp. Co., Ltd., Toronto, Ont.
Viking	Steel	1117	1800	217	37	15						Bulk	Sand				1889	Seneca Washed Gravel Corp. Buffalo, N. Y.
Virginia	Steel	1075		201.2	39	16.2							Pack	age Freight			1902	Muskegon Dock & Fuel Co. Muskegon, Mich.
Viscount Bennett (Can.)	Steel	6221	8500	480	52	30	Arch		28	12	7 2400	7 1800	7 1700	7 2600			1908	Colonial S. S., Ltd. Port Colborne, Ont.
Voorhees, Enders M.	Steel	10294	17650	622.6	67	35	Arch	Side	18	24	6 6100	6 5250	6 6300				1942	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio
Wahcondah (Can.)	Steel	1575	2400	229.6	37.0	24			4	24	2 1200	2 1200					1903	Abitibi Navigation Co., Ltd. Toronto, Ontario
Wallace, James C.	Steel	6684	10309	532	56	31	Arch	Side	32	12	10 3500	12 3400	10 3400				1905	Interlake S. S. Co. Cleveland, Ohio
Wallace, Robt. B.	Steel	6657	10400	535.5	55	31	Arch	Side	32	12	8 2800	8 2700	8 2400	8 2500			1906	The Wilson Transit Co. Cleveland, Ohio
Walsh, James P.	Steel	5326	8500	488.6	52	30	Arch	Side	28	12	5 2000	8 2100	8 2100	7 2300			1905	Hutchinson & Co. Cleveland, Ohio
Walters, Thomas	Steel	7764	11500	580	58	32	Arch	Side	36	12	9 3000	9 2800	9 2800	9 2900			1911	Jones & Laughlin Steel Corp. Lake Transp. Div.
Warren, Wm. C. (Can.)	Steel	1745	3000	253	43.2	20	Arch		7	24	3 1400	4 1600					1925	Beacons Field Steamship, Ltd. Montreal, Quebec
Washington Times Herald	Steel	1940	3000	252.8	43.4	20	Arch		6		3 1400	3 1500					1929	Quebec & Ontario Transp. Co., Ltd., Louis St., Quebec, Que.

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## GENERAL DIMENSIONS OF LAKE VESSELS

147

Name	Built of	Ton- nage	Capac- ity	DIMENSIONS			Con- struc- tion	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager	
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6			
Watson, Ralph H.	Steel	8302	13900	593.3	60.2	32.6	Arch	Side	18	24	6 5700	6 3900	6 4900				1938	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio	
Watt, James	Steel	3807	6300	405	48	28	Arch	Side	12	24	3 1600	3 1600	3 1500	3 1600			1896	Nicholson Transit Co. River Rouge, Mich.	
Weed, Shelton (Can.)	Steel	1745	3000	253	43.1	20	Arch		7	24	3 1400	4 1600					1925	Upper Lakes & St. Lawrence Transp.Co.,Ltd., Toronto, Ont.	
Weir, David M.	Steel	6511	10200	540	56	31	Arch	Side	32	12	10 3600	12 3000	10 3600				1907	M. A. Hanna Co. Cleveland, Ohio	
Weir, Ernest T.	Steel	8203	12000	588	60.2	32	Arch	Side	35	12	8 3100	10 2850	10 2850	7 3200			1923	M. A. Hanna Co. Cleveland, Ohio	
Wells, Jos. P.	Steel	4871	7000	420	52	28	Arch		23	12	5 1700	6 1700	6 1800	6 2100			1906	Detroit & Cleveland Nav. Co. Detroit, Mich.	
Westcliffe Hall (Can.)	Steel	1900	2750	253	43.4	20.6	Arch		6	24	1475	1375					1928	Hall Corp. of Canada Montreal, Quebec	
Wescoat, L. S.	Steel	4063		400	48	28		16				TAN	KER	- 48,000	Bbls.		1893	Pure Oil Co. Detroit, Mich.	
West, Charles C.	Steel	8481	11650	590	60.1	31	Self Arch	Unlo- ader Side	31	12		3 No. 7 5	4 No. 8 5	2 No. 9 4	2 No. 10 2	4		1925	Rockport S. S. Co. Sheboygan, Wisc.
Westmount (Can.)	Steel	7392	10600	529	58	31	Arch	Side	16	24	3 2300	3 1900	2 1100	2 1100	3 1900	3 2300	1917	Canada S. S. Lines, Ltd. Montreal, Quebec	
Weston (Can.)	Steel	1940	3000	253	43.4	20	Arch		6	24	3 1400	3 1600					1929	Colonial S. S. Co. Port Colborne, Ont.	
West Shore	Steel		715	157	36	13.5						Fuel	Lighter				1910	West Shore Fuel, Inc. Buffalo, N. Y.	
Weyburn (Can.)	Steel	2403	3000	250	42.9	26.6	Arch		6	24	2 1100	2 900	2 1000		Package Freight		1927	Canada S. S. Lines, Ltd. Montreal, Quebec	
White, Charles M.	Steel	9115	14000	602	71.6	35	Arch	Side	15	24	5 5050	5 4200	5 4750				1946	Nicholson Universal Steamship Co., Inc., Detroit, Mich.	
White, Peter	Steel	6184	9300	504	54.2	30	Arch	Side	30	12	7 2600	7½ 2000	7½ 2000	8 2700			1905	Presque Isle Transp. Co. Cleveland, Ohio	
White, W. F.	Steel	7180	10200	530	60	31	Self Arch	Unlo- ader Side	30	12	8 3000	6 1900	6 1900	10 3400			1915	Michigan Limestone Div. U.S.S. Co., Rogers City, Mich.	
White Swan (M.V.)	Wood	99	150	81	23	7.5	Arch		2		2 150						1922	Lyons Navigation Co. Lorain, Ohio	
Widener, Peter A. B.	Steel	7661	12400	585.7	58.2	32	Arch	Side	35	12	12 4450	12 3850	11 4200				1906	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio	



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# GENERAL DIMENSIONS OF LAKE VESSELS

149

Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager	
				Length	Beam	Depth			No.	Centers	1	2	3	4	5	6			
Wilkinson, Frank (Can.)	Steel	1940	3000	253	43.4	20	Arch		6	24	3 1500	3 1500					1929	Colonial S. S., Ltd. Port Colborne, Ont.	
Wilkinson, Horace S.	Steel	8337	12000	538.3	60	32	Arch	Side	35	12	8 3100	9 2700	9 2700	9 3500			1917	Great Lakes S. S. Co. Cleveland, Ohio	
Williams, Homer D.	Steel	8369	13700	580	60	32	Arch	Side	35	12	12 4850	12 4150	11 4700				1917	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio	
Williams, John C.	Steel	6657	10000	525	55	31	Arch	Side	32	12	8 2500	8 2500	8 2500	8 2500			1906	Midland S. S. Line Cleveland, Ohio	
Williamsport	Steel	4315	6200	380	50	28	Arch		20	12	6 2200	7 1800	7 2200				1908		
Willowbay (Can.)	Steel	1246	1600	219.5	34.3	12.4	Arch		3		1 650	1 500	1 450	Pack	age	F	reight	1920	Sterling Nav. Co., Ltd. Halifax, N. S.
Willowbranch (Can.)	Steel	2153		259	43.6	20					TAN	KER	- 26,	800	B	bls.		1950	Branch Lines, Ltd. Sorel, Quebec
Wilson, Thomas	Steel	8758	14850	604.8	60.2	35	Arch	Side	18	24	4 3950	5 3300	5 3400	4 4200			1943	The Wilson Transit Co. Cleveland, Ohio	
Windoc (Can.)	Steel	4599	6800	410	50	28	Arch	Side	22	12	5 1700	6 1600	6 1500	5 2000			1899	Paterson S. S., Ltd. Fort William, Ont.	
Winnipeg (Can.)	Steel	2383	2200	250	42.9	26.6			6	24	2 900	2 600	2 700	Pack	age	F	reight	1926	Canada S. S. Lines, Ltd. Montreal, Quebec
Wolf, Wm. H.	Steel	6281	9700	504	54	30	Arch	Side	30	12	8 2700	7 2000	7 2300	8 2700			1908	Gartland S. S. Co. Chicago, Ill.	
Wolverine	Steel	3850	6100	413.2	48	28	Arch	Side	12	24	3 1700	3 1600	3 1400	3 1400			1896	Columbia Transp. Co. Cleveland, Ohio	
Wolvin, Augustus B.	Steel	6988	11000	540	56	32	Arch	Side	16	24	4 2800	4 2700	4 2700	4 2800			1904	Interlake S. S. Co. Cleveland, Ohio	
Wood, Joseph	Steel	6360	9500	504	54	30	Arch	Side	30	12	7 2700	8 1800	8 2200	7 2800			1910	M. A. Hanna Co. Cleveland, Ohio	
Wyandotte	Steel	2450	2750	346	45.2	24	Self Arch	Unloader Side	18	12	8 1200	7 1000	3 550				1908	Wyandotte Transp. Co. Wyandotte, Mich.	
Yankcanuck (Can.)	Steel	1778	2200	243.2	41.8	19.6			3	24	3 2200	Self	Unloader				1899	Yank Canuck Transp. Co., Ltd., Hamilton, Ont.	
Yates, Harry	Steel	5144	8400	444	56.2	28	Arch	Side	14	24	4 2600	5 3000	5 2800				1909	Boland & Cornelius Buffalo, N. Y.	
Yosemite	Steel	3554	5500	356	50	28	Arch		10	24	3 1650	2 1100	2 1100	3 1650			1901	Cleveland-Cliffs Iron Co. Cleveland, Ohio	
Young, Colonel E. M.	Steel	5841	8800	504	54.2	30	Self Arch	Unloader	15	24	2 900	1 700	2 1400	3 1400	3 1800	2 1700	1905	Tomlinson Fleet Cleveland, Ohio	

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# GENERAL DIMENSIONS OF LAKE VESSELS

151

Name	Built of	Ton-nage	Capac-ity	DIMENSIONS			Con-struc-tion	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Ynungstown	Steel	8262	13500	580	60.2	32	Arch	Side	33	12	11 5050	12 4200	10 4250				1920	Interlake S. S. Co. Cleveland, Ohio
Zeising, August	Steel	7969	13200	580	60	32	Arch	Side	35	12	12 4650	12 4050	11 4500				1917	Pittsburgh Steamship Div. U.S.S. Co., Cleveland, Ohio



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## SELF-UNLOADERS OF THE GREAT LAKES

153

Name	Ton- nage	Capa- city	DIMENSIONS			Ma- terial	Con- struc- tion	Tanks	HATCHES		Compartment-Hatches-Capacity						Type	Lgth. of Boom	When Built	Owner or Manager
			Lgth.	Beam	Depth				No.	C't's	1	2	3	4	5	6				
Alpena	2886	4910	366	47.2	26	Stone & Coal		Side	18	12	6 1850	6 2050	6 1000				Con- veyor	110	1909	Wyandotte Transpor- tation Co., Detroit, Mich.
American	1408	2140	204.4	42.1	20	Sand					2	12"	Pumps				Bucket & Belt Con'vr		1921	Marine Transit Co. Chicago, Ill.
Arrow (Barge)	333	500	165	28	9.5				2		1 300	1 200						40	1896	S. W. & R. S. Armen- trout, Monroe, Mich.
Ashley, J. S.	6993	9000	509.7	54.2	30	Coal & Stone	Arch	Side	27	12	1600	1400	1300	1250	1150	2300	Con- veyor	200	1909	Hutchinson & Co., Cleveland, Ohio
Bayanna (Can.)	1642	1800	247.7	42.6	17	Sand			4									80	1896	Bays Water Shipping, Ltd. Brockville, Ont.
Bay State	1245		265	36	22.6	Sand													1890	Sound Gravel Co., Chicago, Ill.
Bay View	1399		265	38	24	Sand													1891	Central Dredging Co., Chicago, Ill.
Bayfax (Can.)	1126	Coal 1350 1500	206	37	15.6	Coal			2		1 750	1 750						60	1912	Coal Carriers Corp., Ltd., Brockville, Ont.
Boardman, John W.	3815	6000	340.6	55.1	28	Cem't	Arch	Side	6		2 2	Elev Pumps	ators				2 Screw Conv's		1923	Huron Transp., Detroit, Mich.
Bradley, Carl D.	10028	14000	623.2	65.2	33	Coal & Stone	Arch	Side	17	24	4 3000	3 3000	3 2000	3 3000	4 3000		Con- veyor	205.6	1927	United States Steel Co., Mich. Limestone Div., Rogers City, Mich.
Brazil	2166		276	40.2	24.4							Sand	Sucker						1890	Illinois Ship & Dredg Co. Chicago, Ill.
Buckeye	4626	7000	412.9	51.6	28	Steel	Arch		3		2100	2600	2300				Two Cranes	75	1900	Columbia Transp. Co., Cleveland, Ohio
BulKarrier (Can.)	2376	2500	253	43.2	25	Bulk Cem't			9		3 800 Cem	3 850 ent	3 850 Carrier						1929	Canada Cement & Transport Co., Montreal, Que.
Cadwell, C. W. (Can.)	564	1100	155	37	10	Sand												78	1911	Taes Transit Co., Hamilton, Ont.

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## SELF-UNLOADERS OF THE GREAT LAKES

155

Name	Ton- nage	Capa- city	DIMENSIONS			Ma- terial	Con- struc- tion	Tanks	HATCHES		Compartment's-Hatches-Capacity						Type	Lgth. of Boom	When Built	Owner or Manager
			Lgth.	Beam	Depth				No.	C't's	1	2	3	4	5	6				
Calcite	3996	5500	416	54.2	29	Coal & Stone	Arch	Side	20	12	1000	2600	1900				Con- veyor	160.6	1912	United Steel States Co., Mich. Limestone Div., Rogers City, Mich.
Carrol, Weston M.	1069		200	38	17	Sand					Sand Sucker								1901	Buffalo Gravel Corp., Buffalo, N. Y.
Cleets, George S. (Can.)	2570	2850	248.6	42.6	25.6	Stone & Coal	Arch		6		1	2	3				Ele- vator	135	1912	Bays Water Shipping, Lt. Brockville, Ont.
Clymer, Irvin L.	7203	10,000	530	60	32	Coal & Stone	Arch	Side	30	12	8	6	6	10					1917	United States Steel Co. Mich. Limestone Div., Rogers City, Mich.
Cement Karrier (Can.)	1971	3000	253	43.2	20	Cem't			12		Cement		Carrier						1930	Canada Cement & Transport Co., Montreal, Que.
Coalfax (Can.)	2482	2650	253	43.2	25	Coal			6		2	2	2				Con- veyor	150	1927	Coal Carrier's Corp. Ltd., Brockville, Ont.
Coalhaven (Can.)	2362	2400	253	43.2	25	Coal			6		2	2	2				Con- veyor			Canada S. S. Lines, Ltd., Montreal, Que.
Collier (Can.)	1858	2400	250	43	20	Coal	Arch		2		1	1					Con- veyor	65	1924	Canada S. S. Lines, Ltd. Montreal, Que.
Commodore Jarvis	287		116	27	6	Sand					Sand Sucker								1906	Frank F. Fix Buffalo, N. Y.
Conneaut	4749	6000	41.6	56	30	Coal & Stone	Arch	Side	21	12	4	8	9				Con- veyor	218	1916	Wyandotte Transp. Co. Detroit, Mich.
Constitution (Barge)	3832	6000	438	44	26	Coal			13	24	13						Con- veyor	130	1897	Pringle Barge Line Co., Cleveland, Ohio
Consumers Power	6391	9000	511.1	56.2	30	Coal & Stone	Arch	Side	26	12	4	4	4	6	4	4	Con- veyor	217	1910	Boland & Cornelius Buffalo, N. Y.
Cornelius, Adam E.	8400	12000	586.3	60.2	32	Coal & Stone	Arch	Side	18	24	2½	3	2	2	3	2	Con- veyor	30' Chute 240	1927	Boland & Cornelius Buffalo, N. Y.
Crapo, S. T.	4769	7500	392.5	60.3	29	Ce- ment					2	Elevators					Two Screw Conv's		1927	Huron Transp. Co., Detroit, Mich.



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## SELF-UNLOADERS OF THE GREAT LAKES

157

Name	Ton- nage	Capa- city	DIMENSIONS			Ma- terial	Con- struc- tion	Tanks	HATCHES		Compartment's-Hatches-Capacity						Type	Lgth. of Boom	When Built	Owner or Manager
			Lgth.	Beam	Depth				No.	C't'rs	1	2	3	4	5	6				
Dahlke, H.	620		152	34.6	10.6	Sand					Sand Sucker								1907	First National Bank Detroit, Mich.
Davie, Geo. T. (Can.)	680	1400	177.5	35	12.5	Coal	(BARGE)				800	300	300						1898	Pike Salvage Co., Kingston, Ont.
Detroit Edison	4939	6900	475	52.2	28	Coal & Stone	Arch	Side	13	24	1000	1100	1600	1100	2100		Con- veyor	181	1908	Boland & Cornelius Buffalo, N. Y.
Diamond Alkali	8409	13000	580	60.1	32	Coal & Stone	Arch	Side	32	12	1800	2500	2300	2300	2300	130	Con- veyor	239.6	1917	Boland & Cornelius Buffalo, N. Y.
Dick, Baxter (Can.)	473	500	159.3	28	10.2	Bulk Sand													1900	National Sand & Ma- terial Co., Ltd., Toronto, Ont.
Dick, Charles (Can.)	2015	2500	250	43	20	Sand												65	1922	National Sand & Ma- terial Co., Ltd., Toronto, Ont.
Dow Chemical	6612	9100	511.1	56.2	30	Coal Stone	Arch	Side	26	12	1320	650	630	1875	2175	2450	Con- veyor	30' Chute 190.6	1912	Boland & Cornelius, Buffalo, N. Y.
Emery, John R.	422		133	32.8	9.6	Sand					12"	Pumps					Der- rick		1905	W. L. Emery, Detroit, Mich.
En-Ar-Co (Can.)	543	1200	191	29	14.4	Coal	(BARGE)				400	400	200	200					1874	Pike Salvage Co., Kingston, Ont.
Erie	290		124.6	28.4	7.4	Sand					12"	Pumps							1906	Homer W. Mollnix, Toledo, Ohio
Ewig, Harry T.	3562	5500	352.9	43.2	28	Steel	Arch		3		1700	2200	1600				Two Cranes	65	1902	Columbia Transp. Co., Cleveland, Ohio
Fitzgerald, W. E.	4945	7500	420	56.2	28	Coal & Stone	Arch		23	12	3500	4000					Con- veyor	30' Chute 140	1906	Gartland S. S. Co., Chicago, Ill.
Fontana	3887	4600	362.8	50.2	23	Coal Stone Sand	Arch		17	12	950	1200	1600	850			Con- veyor scr'per	150	1904	Boland & Cornelius, Buffalo, N. Y.
Fort Meigs		190	116.4	27.8	6	Sand & Gravel					Sand Pump									James Scanes Boat & Dock Co., Toledo, Ohio

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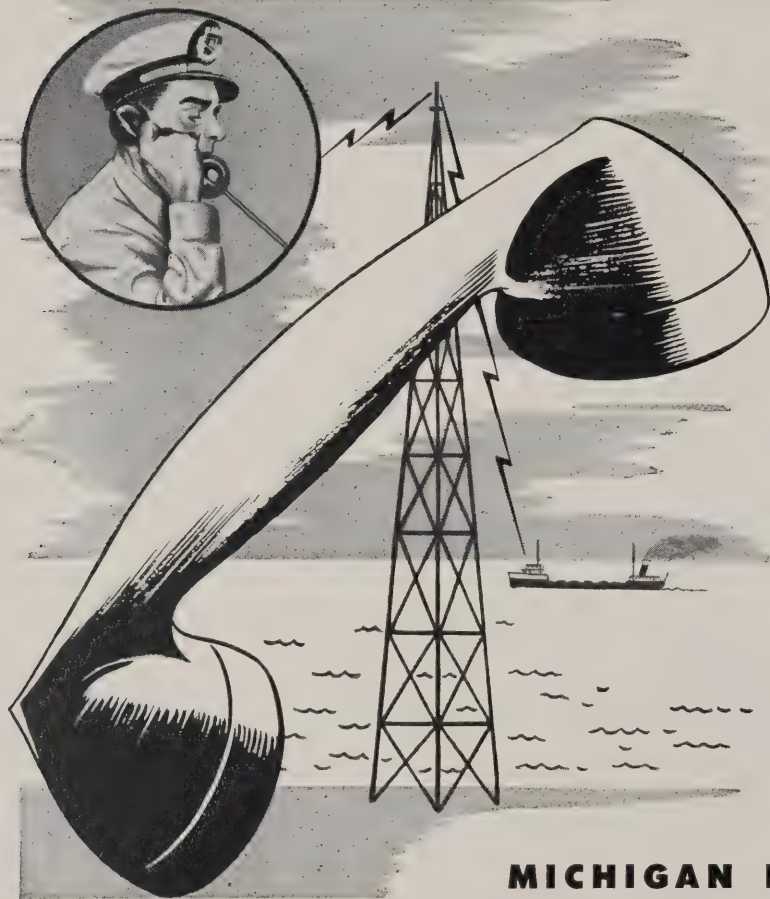
SHENANGO

## SELF-UNLOADERS OF THE GREAT LAKES

159

Name	Ton-nage	Capa-city	DIMENSIONS			Ma-terial	Con-struction	Tanks	HATCHES		Compartment's-Hatches-Capacity						Type	Lgth. of Boom	When Built	Owner or Manager
			Lgth.	Beam	Depth				No.	C't's	1	2	3	4	5	6				
Gilbert	1108		195.3	42.4	14.6	Sand													1924	Lake Sand Corp., Chicago, Ill.
Glenelg (Can.)	2099	2400	252	42	25.6	Coal	Arch		10	24	900	750	750					80	1923	Canada S. S. Lines, Ltd., Montreal, Que.
Great Western (Can.)	1072	1200	220	40.2	13		(BA RGE)										Steel Boom	110	1886	United Towing & Salvage Co., Ltd., Port Arthur, Ont.
Hilda	2674	3300	338	56	19.6	Pulp Wood	(BA RGE)				10	Ton Crane					Rev. Crane		1903	Roen S. S. Co., Sturgeon Bay, Wisc.
Hilda (Can.)	458	1100	160	30	12.3	Coal	(BA RGE)				1100								1898	Pike Salvage Co., Ltd., Kingston, Ont.
Holst, R. W. (M.V.)	184		114.2	28	6.6	Sand													1929	The Vermilion Sand & Supply Co., Vermilion, Ohio
Hood, Clifford F.	4165	6700	414	50	28	Bulk Steel	Arch	Side	3		3	6700					Two Cranes	75	1902	U. S. S. Co., American Steel & Wire Div., Cleveland, Ohio
Huron	4810	6000	416	56	30	Coal & Stone	Arch	Side	21	12	1500	2000	2500				Con-veyor	150	1914	Wyandotte Transp. Co., Detroit, Mich.
Hydro	1228	1300	172	40.6	19	Sand					2	Pumps					Con-veyor	75	1913	Kelley Island Lime & Transport Co., Sandusky, Ohio
Hyman, Myron L. (Can.)	404		156.6	33*	9	Sand													1907	Buffalo Gravel Corp., Buffalo, N. Y.
Inland, The (M.V.)	1695	3000	250.3	42.9	17.3	Bulk Steel	Arch		2		1	1600	1400				2 5 Ton Hoists		1926	Inland Steel Co., Cleveland, Ohio
Ironwood	1310	1600	203.9	40	18	Steel	Arch		2		2	1600						90	1902	Nicholson Transit Co., River Rouge, Mich.
Iselin, Adrian	2040	3000	244	43	23	Steel	Arch		3	12	1	1400	1600					130	1914	Nicholson Transit Co., River Rouge, Mich.
John, J. B.	2172	3000	250	43	25	Ce-ment						13,000	Bbls.				Elect. Hand-ling		1909	Petoskey Transit Co., Petoskey, Mich.





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## SELF-UNLOADERS OF THE GREAT LAKES

161

Name	Ton- nage	Capa- city	DIMENSIONS			Ma- terial	Con- struc- tion	Tanks	HATCHES		Compartment's-Hatches-Capacity						Type	Lgth. of Boom	When Built	Owner or Manager
			Lgth.	Beam	Depth				No.	C't's	1	2	3	4	5	6				
Kelley, Norman	513	1500	179	35	15			(BA RGE)			35	Ton	Whi	rley			One whirr- ley		1905	L. A. Wells Con- struction Co., Cleveland, Ohio
Kelly Island	683	1250	179.8	38.1	16	Sand					Sand	Pu	mp	2	Yd.	Buck	et	80	1914	Kelleys Island Lime & Transport Co., Sandusky, Ohio
Kling, John A.	6821	9900	546.3	56.2	30.4	Coal & Stone	Arch	Side	30	12	1500	800	1400	1700	1400	1700	Con- veyor	192	1922	Rockport S. S. Co., Sheboygan, Wisc.
Koal Kraft	376		159	37.6	10.4	Coal					Lig	hter	Serv	ice			Conv'r Buck't Hoist		1913	So. Chicago Coal & Dock Co., Chicago, Ill.
Kopmeier, Norman J.	6606	9300	510.5	53.8	30	Coal & Stone	Arch	Side	26	12	2700	1700	1700	2000	1200		Con- veyor	30' Chute 192	1906	Boland & Cornelius Buffalo, N. Y.
Lagonda	3647	5200	375.6	45.8	28	Steel & Scrap	Arch		4		5200						Two Whirr- lies	30	1896	Boland & Cornelius Buffalo, N. Y.
McCool, Daniel (M.V.)	649	850	147	33.1	13.5	Bulk Ce- ment					Pu	mp	Pipe	Line					1926	Cement Transit Co., Cleveland, Ohio
McFarland, O. S.	3954	6100	370.8	50.2	28	Steel & Scrap	Arch		3		1900	2400	1800				Two Cranes	65	1903	Columbia Transp. Co., Cleveland, Ohio
McKerchey, John M.	506	1000	161.2	37.1	17.3	Sand					Sand	Pu	mps	2	Yd.	Buck	et	75	1906	Kelley Island Lime & Transport Co., Sandusky, Ohio
Maida (Barge)	3474	6300	375.2	46	26	Coal			22	12	2200	1900	2200				Con- veyor	150	1898	Pringle Barge Line Co., Cleveland, Ohio
Maitland No. 1	2850	3400	338	56	20.5			Barge	10	Ton	Crane						Rev. Crane		1916	Roen S. S. Co., Sturgeon Bay, Wisc.
Marcox (Can.)	1573	2100	246	41	15.3				6	24	750	600	750				Deisel Crane	60	1903	Yankcanuck Transp. Co. Sault Ste. Marie, Ont.
Manzzutti (Can.)	1563	2100	246	41	15.2				6	24	750	600	750				Deisel Crane	60	1903	Yankcanuck Transp. Co. Sault Ste. Marie, Ont.
Mathiott, E. G.	3606	5200	352.9	48.2	28	Coal & Stone	Arch		10	24	1400	1025	1025	1750			Con- veyor scr'p'r	146	1902	Columbia Transp Co., Cleveland, Ohio

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## SELF-UNLOADERS OF THE GREAT LAKES

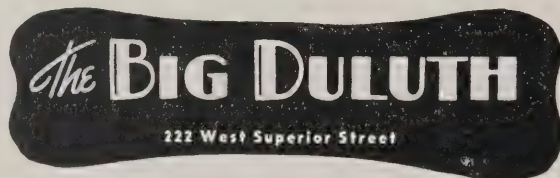
163

Name	Ton- nage	Capa- city	DIMENSIONS			Ma- terial	Con- struc- tion	Tanks	HATCHES		Compartment-Hatches-Capacity						Type	Lgth. of Boom	When Built	Owner or Manager
			Lgth.	Beam	Depth				No.	C't's	1	2	3	4	5	6				
Marquette & Bessemer No. 2	2486	4200	338	56	19.6	Pulp wood		(BA	RGE)								One Crane	75	1910	Roer S. S. Co., Sturgeon Bay, Wisc.
Midland Prince (Can.)	6339	6900	466	55	31	Coal	Arch		14	24	1200	2200	2200	1300			Con- veyor	150	1907	Canada S. S. Lines, Ltd., Montreal, Que.
Mitchell, Samuel	2379		298.10	40	24.6	Ce- ment			4											Huron Transportation Co. Detroit, Mich.
Moody, R. E.	3663	5200	361.5	48.6	28	Coal & Stone	Arch		10	24	3000	1800	1800	3400			Con- veyor	146	1903	Columbia Transp. Co., Cleveland, Ohio
Munson, John G.		20000	666	72	36	Coal & Stone	Arch	Side	18	24	3270 3820	3 3010	3 2720 3010	3 2730 3010	3 2750 3093	3 3020 3870	Belt Con- veyor	250	1952	United States Steel Co. Michigan Limestone Div. Rogers City, Mich.
Nassau (M.V.)	2098		266	39	25.6	Sand					1800	Cu.	Yds.				Pumps		1893	Fitz Simons & Corniell Dredge & Dock Co., Chicago, Ill.
Newman, T. F.	1205	1142	174.5	40	20	Sand	Steel		Barge								One Whirl- ie		1923	A. B. McLean & Son Sault Ste Marie, Mich.
Niagara	1760		249.5	41.4	16.8	Sand or Gravel														Gravel Products Corp., Buffalo, N. Y.
Oglebay Crispin	6635	10000	532	58.3	31	Coal & Stone	Arch	Side	29	12	1250	1750	2000	2000	1700	1300	Belt Con- veyor	30 Chute 240	1908	Columbia Transp. Co. Cleveland, Ohio
Osborne, Frank C. (Can.)	681	1200	155	37	10	Sand												76	1912	Coal Carrier's Corp., Brockville, Ont.
Osler (Can.)	7051	7500	491.2	56	31	Coal or Stone	Arch		14	24	850	1800	1700	1700	1750		Con- veyor	200	1907	Canada S. S. Lines, Ltd., Montreal, Que.
Paisley, Rob't J.	4260	6600	410	48	28	Coal or Stone			11	24	1600	1800	1800	1400			Con- veyor	140	1901	Morrow S. S. Co., Cleveland, Ohio
Pearson	297		123	26.6	6.7	Bulk Sand													1921	Harold L. Baldwin Detroit, Mich.
Pine Ridge	717		154	35	14															Nicholson Universal S. S. Co., Detroit, Mich.





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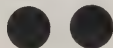
## SELF-UNLOADERS OF THE GREAT LAKES

165

Name	Ton- nage	Capa- city	DIMENSIONS			Ma- terial	Con- struc- tion	Tanks	HATCHES		Compartment-Hatches-Capacity						Type	Lgth. of Boom	When Built	Owner or Manager
			Lgth.	Beam	Depth				No.	C't'rs	1	2	3	4	5	6				
Pope, E. C.	2787	3500	322.8	42.2	24	Steel	Arch		4		4						Two Whirl- ies	55	1891	Nicholson Transit Co., River Rouge, Mich.
Post, G. G.	3555	6000	352.9	43.2	23	Steel	Arch		3		1700	2700	1600				Two Cranes	65	1902	Columbia Transp. Co., Cleveland, Ohio
Proctor, Dan C. (Can.)	664	1500	200	34	14				Barge								Two Cranes	Two 70	1893	Keenan Towing Co., Owen Sound, Ont.
Rand, Geo. F.	7510	9700	538.3	58.2	31	Coal & Stone	Arch	Side	28	12	2900	1725	1725	1725	1625		Con- veyor	30' Chute 216	1911	Boland & Cornelius, Buffalo, N. Y.
Reiss, J. L.	5398	6920	489	52.2	30	Coal or Stone	Arch	Side	13	24	1660	2170	1010	1560	1110	1110	Con- veyor	192	1906	The Reiss S. S. Co., Sheboygan, Wisc.
Reiss, Peter	6578	9000	504	54	30	Coal or Stone	Arch	Side	29	12	1350	650	1950	1350	1350	1350 1000	Con- veyor	Buck Belt 225	1949	The Reiss S. S. Co. Sheboygan, Wisc.
Resolute (Barge)	3256	6000	352	44	26	Grain	Arch		11		3	Comp.					One Crane	75	1896	Roen S. S. Co., Sturgeon Bay, Wisc.
Robinson, T. W.	7726	11000	572.6	60.2	32	Coal & Stone	Arch	Side	31	12	2700	1800	1700	3200	1600		Con- veyor	202	1925	United States Steel Co., Mich. Limestone Div., Rogers City, Mich.
Rockwood	1290	1600	220	40	16	Sand			Sand	Sucker								90	1899	Kelley Is. Lime & Trans. Co. Sandusky, Ohio
Schoellkopf, J. F. Jr.	7264	10000	531.2	56.2	32	Coal & Stone	Arch	Side	29	12	2900	1350	1350	1350	3050		Con- veyor	30' Chute 193	1907	Boland & Cornelius, Buffalo, N. Y.
Schwartz, K. V.	1316	2400	246.5	38		Gravel Sand		12 00 Cu. Yd.		20"	Pu	mp					3 Yd. Clam	85	1884	Schwartz Sand & Gravel Co., Cleveland, Ohio
Scobell, Jos. S.	1445	3000	266	38.2	24	Sand			2		1 956 Yds.	1 905 Yds.					Belt	110	1891	Erie Sand & Gravel Co. Erie, Pa.
Sensibar, J. R.	7179	9000	537.8	50.2	31	Coal or Stone	Arch	Side	28	12	1200	1550	2000	1750	1400	1100	Con- veyor	196	1906	Columbia Transp. Co., Cleveland, Ohio
Sierra	4846	6000	438.7	52	28	Coal or Stone	Arch	Side	13	24	1000	1600	1600	1000	800		Con- veyor scr'per	30' Chute 190	1906	Columbia Trans. Co. Cleveland, Ohio

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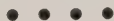
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## SELF-UNLOADERS OF THE GREAT LAKES

167

Name	Ton- nage	Capa- city	DIMENSIONS			Ma- terial	Con- struc- tion	Tanks	HATCHES		Compartm'ts-Hatches-Capacity						Type	Lgth. of Boom	When Built	Owner or Manager
			Lgth.	Beam	Depth				No.	C't's	1	2	3	4	5	6				
Sinaloa	4539	6000	423	50	28	Coal Stone Sand			23	12	1200	1650	1600	1550			Con- veyor	140	1903	Boland & Cornelius, Buffalo, N. Y.
Steel Electrician (M.V.) (Can.)	1695	3000	250.3	42.9	17.3		Arch		4		1600	1400					2 5 Ton Hoists		1926	Paterson S. S. Ltd. Fort William, Ont.
Steel King	3248	4800	325	44	28.1	Steel			3		1400	1700	1700				Two Cranes	60	1897	Nicholson Transit Co., River Rouge, Mich.
Sumatra	4118	5000	405.4	48	28	Coal or Stone			13	24	1050	1300	1600	1050			Con- veyor	30' Chute 165	1897	Tomlinson Fleet, Cleveland, Ohio
Tampico	1894	2700	246	42	24		Arch		2									100	1900	Nicholson Transit Co., River Rouge, Mich.
Tate, Ben E.	3954	6000	362.8	50	23	Coal or Stone	Arch		10	24	1500	1400	1300	1800			Con- veyor scr'per	140	1902	J. A. Paisley S. S. Co., Cleveland, Ohio
Taylor, B. H.	7318	10000	536.5	60	32	Coal or Stone	Arch	Side	30	12	3200	2100	2100	2600			Con- veyor	195.6	1923	United States Steel Co., Mich. Limestone Div., Rogers City, Mich.
Thunder Bay Quarries	6493	9300	511.5	54.1	30	Coal or Stone	Arch	Side	14	24	2200	1400	1300	2400	1500		Con- veyor	30' Chute 261	1907	Boland & Cornelius, Buffalo, N. Y.
Transport (Barge)	1397	1850	254	46	14	Coal											one Crane 1 (?)		1880	Roen S. S. Co., Sturgeon Bay, Wisc.
United States Gypsum	6612	9100	511.1	56.2	30	Coal Stone	Arch	Side	26	12	1320	650	630	1875	2175	2450	Con- veyor	30' Chute 171.6	1910	Boland & Cornelius, Buffalo, N. Y.
Valley Camp (Can.)	2351	2700	252	43	25.5	Coal			13	12	1000	900	800				Con- veyor	86	1927	Valley Camp Coal Co., of Canada, Ltd., Toronto, Ont.
Venus	3719	5600	346	48	28	Steel or Scrap	Arch		3		5600						Two Whir- lies	25	1901	Boland & Cornelius, Buffalo, N. Y.
Victoria	596		122	36	11	Sand				15" Pump									1917	Lyons Construction Co., Whitehall, Mich.
Viking	1117	1800	217	37	15	Bulk Sand													1889	Seneca Washed Gravel Buffalo, N. Y. Corp.,



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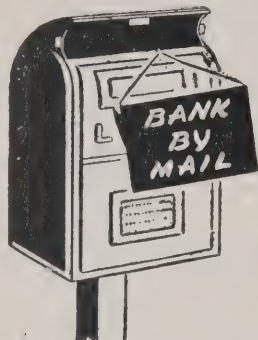
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## SELF-UNLOADERS OF THE GREAT LAKES

169

Name	Ton- nage	Capa- city	DIMENSIONS			Ma- terial	Con- struc- tion	Tanks	HATCHES		Compartment-Hatches-Capacity						Type	Leth. of Boom	When Built	Owner or Manager
			Lgth.	Beam	Depth				No.	C't's	1	2	3	4	5	6				
Warrenko (Can.)	337	800	221	26	11.5	Coal			BA	RGE	300	200	150	150						Pike Salvage Co., Kingston, Ont.
West, Chas. C.	8481	11650	590	60.1	31	Stone or Coal	Arch	Side	31	12	0	3	4	2	2	4				
													7 5	8 5	9 4	10 2	Con- veyor	204	1925	Rockport S. S. Co., Sheboygan, Wisc.
West, B.	122		100	24.1	4.5	Sand			(BA	RGE)							Der- rick		1910	Capt. Henry Peltier Mt. Clemens, Mich.
West Shore		715	15.1	36	13.5	Coal				Fuel	Lighter						Con- veyor		1910	P. M. Fuel, Inc., Cleveland, Ohio
White, W. F.	7180	10200	530	60	31	Coal Stone	Arch	Side	30	12	8 3000	6 1900	6 1900	10 3400			Con- veyor	202	1915	United States Steel Co., Mich. Limestone Div., Rogers City, Mich.
Wyandotte	2450	2750	346	45.2	24	Coal Stone	Arch	Side	18	12	8 1200	7 1000	3 550				Con- veyor	100	1903	Wyandotte Transp. Co., Wyandotte, Mich.
Yankcannuck (Can.)	1778	2200	243.1	41.6	19.5				3	24	2200							50	1899	Yankcannuck Transp. Co., Saulte Ste. Marie, Ont.
Young, Colonel E. M.	5841	8800	504	54.2	30	Coal or Stone	Arch		15	24	2 900	1 700	2 1400	3 1400	3 1800	2 1700	Con- veyor	30' Chute 190	1905	The Tomlinson Fleet Cleveland, Ohio



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Name	Ton- nage	Capac- ity	DIMENSIONS			Ma- terial	Con- struc- tion	Tanks	HATCHES		Compartment's-Hatches-Capacity			Type	Lgth. of Boom	When Built	Owner or Manager	
			Lgth.	Beam	Depth				No.	C't'rs	1	2	3					
Buckeye	4626	7000	2-77" 412.9	Magn 51.5	ets 28		Arch	2-3½	Ton 3	C lam	Sh ells 62' x 32'		83' x 32'	62' x 32'	2-Re- volv- ing Cranes	75	1900	Columbia Transp. Co. Cleveland, O.
Eloa	4671	7300	420	52	28		Arch	Side	3	34x84	102'		102'	102'	2 Re- volv- ing Cranes			Boland & Cornelius Buffalo, N. Y.
Ewig, Harry T.	3562	5500	2-77" 352.9	Magn 48.2	ets 28		Arch	2-3½	Ton 3	C lam	Sh ells 48' x 31'		80' x 31'	48' x 31'	2-Re- volv- ing Cranes	65	1902	Columbia Transp. Co. Cleveland, O.
Hood, Clifford F.	4165	6700	2-77" 414	Magn 50	ets 28		Arch	Side	3		67'7"x31'9"		76'x31'9"	67'7"x31'9"	2-Re- volv- ing Cranes	75	1902	United States Steel Co. Amer. Steel & Wire Div. Cleveland, C.
Lagonda	3647	5200	375.6	45.8	28		Arch		4		1 - 10'			3 - 48'	2 Brown Hoists	30	1896	Boland & Cornelius Buffalo, N. Y.
Mancox (Can.)	1573	2100	246	41	15.3				6	24	2 750		2 600	2 750	Trav- eling Crane	60	1903	Yankcanuck Transp. Co. Sault Ste. Marie, Ont.
Manzzutti (Can.)	1563	2100	246	41	15.2				6	24	2 750		2 600	2 750	Trav- eling Crane	60	1903	Yankcanuck Transp. Co. Sault Ste. Marie, Ont.
McFarland, O. S.	3954	6100	2-77" 370.8	Magn 50.2	ets 28		Arch	2-3½	Ton 3	C lam	Sh ells 48' x 32'		78' x 32'	48' x 32'	2-Re- volv- ing Cranes	65	1903	Columbia Transp. C. Cleveland, O.
Richardson, W. C.	4883	7300	277 428	Magn 52	ets 28.5	Steel	Arch	2-3½	Ton 4	C lam	Sh ells 64x34	4 Holds			2 Trav- eling Elect. Cranes	75	1908	Columbia Transp. Co. Cleveland, Ohio
Post, G. G.	3555	6000	2-77" 352.9	Magn 48.2	ets 28		Arch	2-3½	Ton 3	C lam	Sh ells 48' x 28'		80' x 28'	48' x 28'	2-Re- volv- ing Cranes	65	1902	Columbia Transp. Co. Cleveland, O.
Steel King	3248	4800	325	44	28.2				3		58' x 27'		64' x 27'	52' x 27'	2 Cranes	60	1897	Nicholson Transit Co. River Rouge, Mich.
Venus	3719	5600	346	48	28		Arch		3		27' x 50'		27' x 60'	27' x 60'	2 Brown Hoists	25	1901	Boland & Cornelius Buffalo, N. Y.



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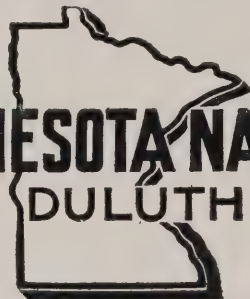
## BARGES ON THE GREAT LAKES

173

Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Amherst (Can.)	Steel	688		162	36	10							Sand				1912	Capt. J. Earl McQueen Amherstburg, Ont.
Arrow	Steel	333	500	165	28	9.5			2		1 300	1 200		Self 40 Ft	Unlo Boom	ader	1896	C. W. & R. S. Armentrout Monroe, Mich.
Black River	Steel	3040	5800	366	44	26	Arch	Side	12	24	2000	2000	4 1800					Lakehead Transp. Co. Fort William, Ont.
Bryn Barge (Can.)	Steel	3854	7200	400	50	27.2	Arch	Side	13	24	2300	2300	5 2600				1900	Upper Lakes & St. Lawrence Transp.Co.,Ltd., Toronto, Ont.
Champion (Ltr.)	Steel			110	50	10						100	Ton Derrick				1929	M. G. Durocher Detour, Michigan
Coburg (Can.)	Wood	637	1300	179.6	31.7	11.4							Derrick Lighter				1897	Sincennes-McNaughton Line, Ltd., Montreal, Quebec
Collingwood II (Can.)	Steel	3120	5700	366	44.6	26	Arch	Side	6	24	2 1500	2 2000	2 2000				1897	Lakehead Transp. Co. Fort William, Ont.
Commander (Can.)	Steel			120	44	14			8	12		8	Comp. (lighter)				1911	Capt. J. Earl McQueen Amherstburg, Ont.
Constitution	Steel	3832	6000	438	44	26			13	24	13 6000		Self 130 Ft	Unlo Boom	ader		1897	Pringle Barge Line Co. Cleveland, Ohio
Coteau (Can.)	Wood	411	600	157.5	27	11											1897	United Towing & Salvage Co., Ltd., Port Arthur, Ontario
Davie, Geo. T. (Can.)	Wood	680	1400	177.5	35	12.5					800	300	300	Self	Unlo	ader	1898	Pyke Salvage Co. Kingston, Ontario
Delkote (Can.)	Steel	3106	5400	352	44	26			11	24	3 1500	4 2000	4 1900				1897	Driftwood Lands & Timber, Ltd., Sault Ste Marie, Ont.
Detour (Ltr.)	Wood			144	44	13						100	Ton Derrick				1922	M. G. Durocher Detour, Michigan
Doville, R. E.	Wood		200	116	28	7											1905	Mt. Clemens Coal & Dock Co. Mt. Clemens, Mich.
En-Ar-Co (Can.)	Wood	543	1200	191	29	14.4	Self	Unlo			400	400	200	200			1874	Pyke Salvage Co., Ltd. Kingston, Ontario
Fritz, John (Can.)	Steel	4152	7900	433	50	23.6	Arch	Side	15	24	8 4200	7 3700					1898	Upper Lakes & St. Lawrence Transp.Co.,Ltd., Toronto, Ont.
Fueloil	Steel	298		152	24	9					Tank	Barge	e - 4500	Bbls.			1934	Great Lakes Transp. Corp. Detroit, Mich.
G-1	Steel	1828	2600	287.9	43.6	18.7		Side	8	26	7 400	8 400	400	400	400	400	1950	Cargo Carriers, Que., Cleveland, Ohio
Glenbogie (Can.)	Steel	3205	5800	366	44	26			12	24	4 2100	4 1400	4 2300				1902	Upper Lakes & St. Lawrence Transp.Co.,Ltd., Toronto, Ont.

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## BARGES ON THE GREAT LAKES

175

Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lght.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Great Western (Can.)	Wood	1072	1200	220	40.2	13					Self	Unlo	ader	110 Ft.	Boo	m	1866	United Towing & Salvage Co., Ltd., Pt. Arthur, Ontario
Hilda	Steel	2674	3300	333	56	19.6					Self	Unlo	ader				1903	Roen S. S. Co. Sturgeon Bay, Wisc.
Hilda (Can.)	Wood	458	1100	160	30	12.3					1100	Self	Unlo	ader			1898	Pyke Salvage Co., Ltd. Kingston, Ontario
Holley, Alexander (Can.)	Steel	3202	5700	361.6	46	26	Arch		12	24	4 2000	4 1700	4 2000				1896	Upper Lakes & St. Lawrence Transp. Co., Ltd., Toronto, Ont.
International (Can.)	Iron	940		215.7	40	13.8					Derrick Lighter						1872	Sincennes-McNaughton Line, Ltd., Montreal, Quebec
Ivey, T. A. (Can.)	Steel	466	700	203.5	32.1	12.5			6		5 Comp.						1899	T. A. Ivey & Sons Port Arthur, Ontario
Kelley, Norman	Steel	513	1500	179	35	15											1905	L. A. Wells Construction Co. Cleveland, Ohio
Kenordoc (Can.)	Steel	3250	6300	369.4	45	26			12	24	4 2200	4 1800	4 1800				1898	Paterson S. S. Ltd. Fort William, Ont.
Krupp, Alfred (Can.)	Steel	3012	5500	352.1	44.2	27	Arch		11	24	3 1700	4 1900	4 1900				1896	Mohawk Nav. Co., Ltd. Montreal, Quebec
Lillian	Steel	2486	4200	388	56	19.6												Roen S. S. Co. Sturgeon Bay, Wisc.
Londonderry (Can.)	Steel	1017	1800	200	40	14			6		300	1000	500				1901	Sincennes-McNaughton Line, Ltd., Montreal, Quebec
Lorain	Steel	596		165	44	12					Fuel	Lighter					1903	Lorain Coal & Dock Co. Cleveland, Ohio
Magna	Steel	2886	4500	352	44.2	26	Arch	Side	11	24	3 1500	4 1500	4 1500				1896	Buckeye S. S. Co. Cleveland, Ohio
Maia	Steel	3350	6600	376	48.2	26	Arch		12	24	12 6600						1898	Buckeye S. S. Co. Cleveland, Ohio
Maida	Steel	3474	6300	375.2	46	26			22	12	8 2200	7 1900	7 2200	Self 150 Ft.	Unlo Boo	ader m	1898	Pringle Barge Line Co. Cleveland, Ohio
Maitland No. 1	Steel	2850	3400	338	56	20.6					Self	Unlo	ader				1916	Roen S. S. Co. Sturgeon Bay, Wisc.
Malden (Can.)	Steel		1200	150	42	11.6			6		1 200	1 200	1 200	1 200	1 200	1 200	1946	Capt. J. Earl McQueen Amherstburg Ont.
Mamie (Can.)	Wood	370	900	129.4	28	11.2											1897	Sincennes-McNaughton Line, Ltd., Montreal, Quebec
Manila	Steel	4683	8400	436	50.2	28.6	Arch	Side	14	24	4 2800	5 2800	5 2800				1899	Buckeye S. S. Co. Cleveland, Ohio



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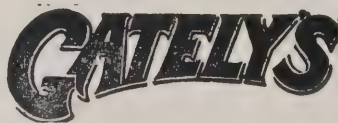
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## BARGES ON THE GREAT LAKES

177

Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Lgth.	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Marsala	Steel	4346	7800	436	50.2	28.6	Arch	Side	14	24	3 1300	2 1300	2 1300	2 1300	2 1300	3 1300	1900	Buckeye S. S. Co. Cleveland, Ohio
Mitchfibre (Can.)	Steel	2237	3500	302	40	25			9	24	9 3500						1895	Driftwood Lands & Timber, Ltd., Sault Ste. Marie, Ont.
Newaygo (Can.)	Wood	252		110	30	7					Derrick	Scow					1928	Newaygo Tug Line, Inc. Chicago, Ill.
Newman, T. F.	Steel	1205		174.5	40.1	20					Lighter						1923	Capt. J. Earl McQueen Amherstburg, Ont.
No. 137 (Can.)	Steel	2817	5100	352	45	26	Arch		11	24	1700	1700	1700				1896	Upper Lakes & St. Lawrence Transp.Co.,Ltd., Toronto, Ont.
Normil (Can.)	Steel	999	1550	241	38.6	13.3			3		3 1550						1893	Northern Paper Mills, Ltd. Green Bay, Wisc.
Ogdensburg (Can.)	Steel	1405		290	45	12.6					Cars						1930	Can. Pac. Car & Pass'gr Transp. Co., Ltd., Prescott, Ontario
Owendock (Can.)	Steel	3213	5600	352	44	26	Arch	Side	6	24	2 2000	2 2000	2 1600				1896	Lakehead Transp. Co. Fort William, Ont.
Peerless No. 1	Wood	409	850	139.4	30.6	15.4			1		1 850						1919	Lyons Construction Co. Whitehall, Mich.
Peerless No. 2	Wood	409	850	139.4	30.6	15.4			1		1 850						1919	Dunbar & Sullivan Dredging Co., Detroit, Mich.
Pellatt, J. H.	Steel	346	1500	179	35	15											1905	L. A. Wells Construction Co. Cleveland, Ohio
Pie River (Can.)	Steel	3419	5800	366	44	26.6	Arch	Side	6	24	2 2000	2 2000	2 1800				1897	Lakehead Transp. Co. Fort William, Ont.
Portadoc (Can.)	Steel	3215	5500	352	44	26	Arch		6	24	2 2000	2 2000	2 2000				1896	Paterson S. S. Ltd. Fort William, Ont.
Proctor, Dan C. (Can.)	Wood	664	1500	200	34	14			6	24			Self 2 70 Ft. B.	Unlo ader rooms			1893	Keenan Towing Co. Owen Sound, Ont.
Reliance (Ltr.)	Steel	1738	3500	242	40	20	Arch										1907	Great Lakes Towing Co. Cleveland, Ohio
Resolute	Steel	3256	6000	352	44	26	Arch		11		3 Comp.						1896	Roen S. S. Co. Sturgeon Bay, Wisc.
Roebling, John A. (Can.)	Steel	4152	7900	438	50	28.6	Arch	Side	15	24	8 4200	7 3700					1898	Upper Lakes & St. Lawrence Transp.Co.,Ltd., Toronto, Ont.
Russell, Roy K. (Can.)	Iron	960		216	32	14											1871	Lloyd Refineries Co. Port Credit, Ont.
S. O. Co. "C"	Iron	3200		366	44	22.2		5			Tank	Barge	- 38,000	Bbls.			1897	Standard Oil Co. (Indiana) Chicago, Ill.

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## BARGES ON THE GREAT LAKES

179

Name	Built of	Tonnage	Capacity	DIMENSIONS			Construction	Tanks	Hatches		Compartments-Capacity-Hatches						When Built	Owner or Manager
				Length	Beam	Depth			No.	Centers	1	2	3	4	5	6		
Solveig	Steel	3040	5000	315	50	23	Arch	Side	10		1 5000						1944	Roen Steamship Co. Sturgeon Bay, Wis.
Sidney	Steel			195	35	9.9					Tank	Bar ge					1939	Latonia Refining Co. Cleveland, Ohio
Smeaton, John	Steel	4530	8000	446.5	50.2	29.5	Arch	Side	15	24	15 8000						1899	Buckeye S. S. Co. Cleveland, Ohio
Swederope	Steel	1566	2000	227	38	19.6	Arch		4								1906	Nicholson Transit Co. River Rouge, Mich.
Swederope (Can.)	Steel	3354	5700	366	44	26		Side	11	24	11 5700						1897	Driftwood Lands & Timber, Ltd., Sault Ste. Marie, Ont.
Texaco 379	Steel	1062		210	40.6			12			Tank	Bar ge - 17,	085 B	bls.			1935	The Texas Co. Chicago, Ill.
Texaco 397	Steel	895		210	40			10			Tank	Bar ge - 14,	040 B	bls.			1936	The Texas Co. Chicago, Ill.
Texaco No. 155	Steel	582		175.6	33.1	13.6					Tank	Bar ge - 8,	928 B	bls.			1919	The Texas Co. Chicago, Ill.
Transport	Iron	1397	1850	254	46	14					Self	Unlo	ader				1880	Roen S. S. Co. Sturgeon Bay, Wisc.
Turret Cape (Can.)	Steel	1823	3600	253	44	19.4			4								1895	Fort William-Montreal Nav. Co., Montreal, Quebec
Universal Atlas Cement Co., No. 51	Steel	1312		226.2	40	12.6					Cement	Carrier					1930	Universal Atlas Cement Co. Chicago, Ill.
Vigilant (Can.)		346		168	22.1	13											1904	Diamond S. S. Co., Ltd. Owen Sound, Ontario
Warrenko (Can.)	Steel	337	800	221	26	11.6					300	200	150	Self 150	Unlo	ader		Pyke Salvage Co. Kingston, Ontario
Wellington I (Can.)	Steel	352		123.1	39.3	9.4					Derrick	Scow					1908	Sincennes-McNaughton Line, Ltd., Montreal, Quebec
West, B.	Steel	122		100	24.1	4.5					Bulk	Sand					1905	Henry L. Peltier Mount Clemens, Mich.



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## CAR FERRIES OF THE GREAT LAKES

181

NAME	Built of	Gross Tonnage	DIMENSIONS			CAPACITY		By Whom and Where Built	Year Built
			Lgth.	Beam	Depth	Cargo	Passengers		
Ann Arbor No. 3	Steel	2047	306.9	52.3	18.5	2680	113	Globe Iron Works, Cleveland, O.	1898
Ann Arbor No. 5	Steel	2884	360	56.3	21	3750	100	Toledo Shipbuilding Co., Toledo, O.	1910
Ann Arbor No. 6	Steel	2716	338	56	20.5	3480	112	Great Lakes Eng. Works, Ecorse, Mich.	1917
Ann Arbor No. 7	Steel	2934	347.9	56.2	21.5	3570	350	Manitowoc Shipbuilding Co., Manitowoc, Wisc.	1925
Ashtabula	Steel	2670	338	56	20.5	26 Cars		Great Lakes Eng. Works, Ecorse, Mich.	1906
Badger	Steel		410.6	59.6	24	32 Cars		Christy Corp., Sturgeon Bay, Wis.	1952
Chief Wawatam	Steel	2990	338.8	62	25	1610	516	Toledo Shipbuilding Co., Toledo, O.	1911
City of Flint No. 32	Steel	3327	369	57.3	22.5	30 Cars	180	Manitowoc Ship Bldg. Co., Manitowoc, Wisc.	1930
City of Midland No. 41	Steel	6000	389.2	58.3	23.5	34 Cars	209	Manitowoc Ship Bldg. Co., Manitowoc, Wisc.	1941
City of Milwaukee	Steel	2942	347.9	56.2	21.5	1630	16	American Ship Bldg. Co., Cleveland, O.	1931
City of Saginaw No. 31	Steel	3327	369	57.3	22.5	30 Cars	180	Manitowoc Ship Bldg. Co., Manitowoc, Wisc.	1929
Detroit	Steel	2220	296	64.1	19.5	26 Cars		Great Lakes Eng. Works, Ecorse, Mich.	1904
Grand Rapids	Steel	2942	347.9	56.2	21.5	1630	16	Manitowoc Ship Bldg. Co., Manitowoc, Wisc.	1926
Huron (Can.)	Steel	1052	238.5	53.9	12.8			Smith, Pt. Edward, Ontario	1875
Landsowne	Steel	1571	294	41.3	13			Detroit Dry Dock, Detroit, Mich.	1884
Madison	Steel	2942	347.9	56.2	21.5	1630	16	Great Lakes Eng. Works, Ecorse, Mich.	1927
Manitowoc	Steel	3093	358	65.1	21.5	30 Cars		Manitowoc Ship Bldg. Co., Manitowoc, Wisc.	1926
Ogdensburg (Barge)	Steel	1405	290	45	12.5			American Ship Bldg. Co., Lorain, O.	1930
Ontario No. 1 (Can.)	Steel	5146	306	54	20.5			Canadian Ship Bldg. Co., Toronto, Ont.	1907

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## CAR FERRIES OF THE GREAT LAKES

183

NAME	Built of	Gross Tonnage	DIMENSIONS			CAPACITY		By Whom and Where Built	Year Built
			Lgth.	Beam	Depth	Cargo	Passengers		
Ontario No. 2 (Can.)	Steel	5563	307.5	45	20.5			Polson Iron Works, Toronto, Ont.	1915
Pere Marquette No. 10 (Det. River)	Steel	2769	400	53.2	22.0	27 Cars	None	Manitowoc Shipbuilding Co. Manitowoc, Wisconsin	1945
Pere Marquette No. 12 (Det. River)	Steel	2767	400	53.0	22.0	27 Cars	None	Manitowoc Shipbuilding Co. Manitowoc, Wisconsin	1927
Pere Marquette No. 14 (Det. River)	Steel	2531	351.9	52.0	21.0	21 Cars	None	Detroit Shipbuilding Co. Detroit, Mich.	1904
Pere Marquette No. 18 (Lake Mich.)	Steel	2777	350	56	20.0	26 Cars	None	American Shipbuilding Co. Chicago, Ill.	1911
Pere Marquette No. 21 (Lake Mich.)	Steel	3016	360	56	21.6	26 Cars	115	Manitowoc Shipbuilding Co. Manitowoc, Wisc.	1924
Pere Marquette No. 22 (Lake Mich.)	Steel	3009	360	56	21.6	26 Cars	115	Manitowoc Shipbuilding Co. Manitowoc, Wisc.	1924
City of Saginaw No. 31 (Lake Mich.)	Steel	3327	381.6	57	22.6	30 Cars	162	Manitowoc Shipbuilding Co. Manitowoc, Wisc.	1929
City of Flint No. 32 (Lake Mich.)	Steel	3327	381.6	57	22.6	30 Cars	168	Manitowoc Shipbuilding Co. Manitowoc, Wisc.	1930
City of Midland No. 41 (Lake Mich.)	Steel	3968	407	58	23.6	32 Cars	205	Manitowoc Shipbuilding Co. Manitowoc, Wisc.	1941
Sainte Marie	Steel	2383	250	62.2	25	1475	400	Toledo Ship Bldg. Co., Toledo, Ohio	1913
Spartan	Steel		410.6	59.6	24	32 Cars		Christy Corp. Sturgeon Bay, Wis.	1952
Transfer	Steel	1511	265	45.5	17			Cleveland Ship Bldg. Co., Cleveland, O.	1888
Wabash	Steel	3366	366	57.7	21.6	4020	350	Toledo Ship Bldg. Co., Toledo, Ohio	1927
Windsor	Steel	3131	358	65.1	21.5	31 Cars		Toledo Ship Bldg. Co., Toledo, Ohio	1930



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## PASSENGER BOATS OF THE GREAT LAKES

185

NAME	Built of	Gross Tonnage	DIMENSIONS			CAPACITY		Where Built	Year Built
			Length	Beam	Depth	Cargo	Passengers		
Alabama	Steel	2526	250	44	17		295	Manitowoc, Wisconsin	1910
Algoma II	Wood	704	139.2	29.9	21			Booth Bay, Maine	1922
Algoming (Can.)	Steel	199	89.1	34	9			Collingwood, Ontario	1926
Algonquin (Can.)		257	117.4	23.5	6.5			Huntsville, Ontario	1928
Amherst Islander	Steel		119.6	32.8	5.6	14 Autos	150		
Ariel	Wood	168	95	29	11			Detroit, Michigan	1881
Assiniboia (Can.)	Steel	3880	336	43.6	26.6			Govan, Scotland	1907
Beloil (Can.)	Steel	490	156.8	26.3	9.5			Montreal, Quebec	1895
Bienville (Can.)	Steel	822	138	52	16			Glasgow, Scotland	1925
Bluebell (Can.)	Wood	581	140	30	8.9			Toronto, Ontario	1906
Boeckling, G. A.	Steel	328	155.9	30	9	1	1200	Ecorse, Michigan	1909
Britannia	Steel	579	164	45	17.9			Wyandotte, Michigan	1906
Cadillac	Steel	636	157	56	17.9			Detroit, Michigan	1928
Canadiana	Steel	974	209.7	45	16		2735	Buffalo, New York	1910
Caribou (Can.)	Wood	597	150	27	12			Godérich, Ontario	1904
Cayuga (Can.)	Steel	2196	306	36.6	15			Toronto, Ontario	1906
Challenger (M.V.)	Steel	70	64.10	25	10	10 Cars	120	Krauss Kraft Kewaunee, Wisc.	1947
Chippewa (M.V.)	Wood	26	65	18	51			Sault Ste. Marie, Mich.	1937
Cité de Lévis (Can.)	Steel	1259	141.8	50	26.7			Glasgow, Scotland	1930

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## PASSENGER BOATS OF THE GREAT LAKES

187

NAME	Built of	Gross Tonnage	DIMENSIONS			CAPACITY		Where Built	Year Built
			Lgth.	Beam	Depth	Cargo	Passengers		
Cité de Quebec	Steel	1259	141.8	50	26.7			Glasgow, Scotland	1930
Cité de Trois Rivières (Can.)	Steel	419	133.3	34.9	11	80		Lauzon, Quebec	1910
City of Cheboygan	Steel	1778	259	54.2	19	80 Autos	432	Cleveland, Ohio	1906
City of Cleveland III	Steel	4568	390	54.2	22	715	2500	Wyandotte, Michigan	1907
City of Detroit III	Steel	6061	455.8	55.5	22	982	2500	Detroit, Michigan	1912
City of Grand Rapids	Steel	3061	291	48	27		1388	Cleveland, Ohio	1912
City of Munising	Steel	2628	338	56	19.6	120 Autos	550	Cleveland, Ohio	1903
City of Petoskey	Steel	2775	338	56	19.6	120 Autos	600	Cleveland, Ohio	1901
Colbert	Steel	822	138	52	16			Glasgow, Scotland	1925
Colomb (Can.)	Wood	559	120.6	34	15.5			Lauzon, Quebec	1910
Columbia	Steel	968	200	45	12.6		2800	Wyandotte, Michigan	1902
Commuter	Steel	67	64.10	24	9.6	8 Cars	120	Stadium Boat Works, Cleveland, Ohio	1945
Dubrule, Joseph (Can.)	Steel	600	162	37	12.3	525		Levis, Quebec	1914
Eastern States	Steel	3077	350	44	19.6	445	1800	Wyandotte, Michigan	1902
Erie Isle (Motor Ship)	Steel	Under 100 Tons	64.9	26	4.6	Freight and Autos	180	Rud Machine Company Cleveland, Ohio	1951
Essex	Steel	266	94	36	14.6			Toledo, Ohio	1913
For Town (Can.)	Steel	135.33	64.6	36	10.0	10 Autos	200	Muir Bros. Dry Dock Port Dalhousie, Ont.	1951
Frontenac (Can.)	Wood	304	119.6	28	9.6			Levis, Quebec	1899



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## PASSENGER BOATS OF THE GREAT LAKES

189

NAME	Built of	Gross Tonnage	DIMENSIONS			CAPACITY		Where Built	Year Built
			Lgth.	Beam	Depth	Cargo	Passengers		
Georgian (Can.)	Steel	2484	246.6	42	14.9			Wyandotte, Michigan	1910
Greater Detroit	Steel	7739	518.7	58	23.7	982	2182	Lorain, Ohio	1924
Halcyon	Steel	405	128	45	15.3			Ecorse, Michigan	1926
Huronic (Can.)	Steel	3330	308	43	27			Collingwood, Ontario	1902
Inglis, William (Can.)	Steel	238	99	25	9.6			Toronto, Ontario	1935
Iroquois (Can.)	Wood	307	118.5	23	7.5			Owen Sound, Ontario	1907
Island Queen (Can.)	Steel	156	86	19	5.7			Peterborough, Ontario	1904
Joliet, Louis (Can.)	Steel	950	169.5	70	15.5			Levis, Quebec	1938
Keewatin (Can.)	Steel	3856	335	43.6	26.6			Govan, Scotland	1907
Kingston (Can.)	Steel	2925	288	36.2	13.3		795	Toronto, Ontario	1901
LaSalle	Steel	677	157	56	17.6			Toledo, Ohio	1922
LaVerendrye (Can.)	Steel	465	126.5	34.2	11			Lauzon, Quebec	1914
Levis (Can.)	Steel	419	133.3	34.9	11			Lauzon, Quebec	1910
Mackinac Islander	Steel	97	91.4	20.7	9.3			Marine City, Mich.	1921
Manitoba (Can.)	Steel	2616	303	38	24.6			Owen Sound, Ontario	1889
Manitou (Can.)	Wood	470	137.2	24.2	9.1			Goderich, Ontario	1903
Maple City (Can.)	Steel	135.33	64.6	36	10.0	10 Autos	200	Muir Bros. Dry Dock Port Dalhousie, Ontario	1951
Mascot	Wood	15	64.10	15	6	15 Tons	100	J. P. Neuman Sandusky, Ohio	1925

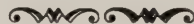
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## PASSENGER BOATS OF THE GREAT LAKES

191

NAME	Built of	Gross Tonnage	DIMENSIONS			CAPACITY		Where Built	Year Built
			Lgth.	Beam	Depth	Cargo	Passengers		
Manitoulin (Can.)	Steel	913	178	31	12.3			Hamilton, Ontario	1889
Midland City (Can.)	Wood	521	153.2	33.2	6.4			Kingston, Ontario	1895
Milwaukee Clipper	Steel	4333	346	45	28	1070	880	Cleveland, Ohio	1941
Montauk	Iron	418	175	31	10.2			Wilmington, Delaware	1891
Morris - Brock	Steel	107	64.10	30.6	4.6	89	150	Cleveland, Ohio	1945
Norgoma	Steel		187.3	36	36	Tons 300	100	Collingwood, Ontario	1950
Norisle (Can.)	Steel	1668	214	36	16	Tons 300	200	Collingwood, Ontario	1946
Normac (Can.)	Steel	462	117.2	25	13			Pt. Huron, Michigan	1902
North American	Steel	2317	259	47.1	18.3		450	Ecorse, Michigan	1913
Northumberland (Can.)	Steel	1255	210	32.1	20.4				1891
Orleans	Steel	269	118	28	9.2	27		Levis, Quebec	1898
Ottwa (M.V.)	Steel	77	65	17.5	6			Ferrysburg, Mich.	1914
Pelee (Can.)	Steel	461	137	24	11.3			Collingwood, Ontario	1914
Put-in-Bay	Steel	1182	226	46.5	17.3		2800	Wyandotte, Michigan	1911
Quebec (Can.)	Steel	7015	350	70	21			Levis, Quebec	1928
Rapids King (Can.)	Steel	1563	230	40.7	10			Toronto, Ontario	1907
Rapids Prince (Can.)	Steel	1314	196.6	37	9.8			Toronto, Ontario	1910
Rennie, Thomas	Steel	424	115.6	33	8.9		1000	Toronto Drydock Co., Toronto, Ontario	1951
Richelieu (Can.)	Steel	5528	322	48	21.6			Wilmington, Delaware	1913

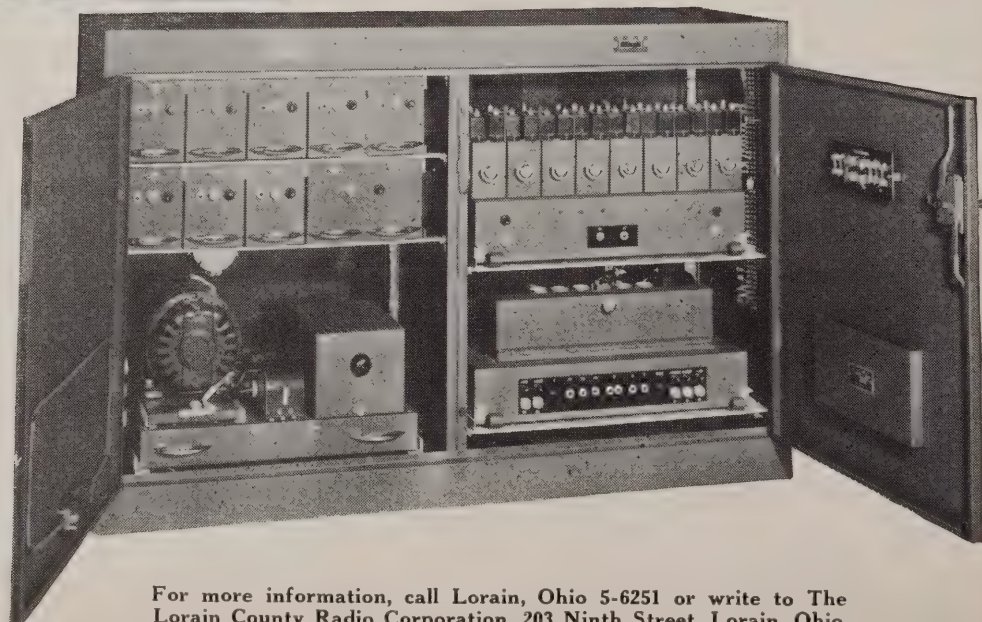


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## PASSENGER BOATS OF THE GREAT LAKES

193

NAME	Built of	Gross Tonnage	DIMENSIONS			CAPACITY		Where Built	Year Built
			Lgth.	Beam	Depth	Cargo	Passengers		
Roosevelt, Theodore	Steel	1955	275.5	40	16		1720	Toledo, Ohio	1906
Saguenay (Can.)	Steel	2777	274.8	40	16.6			Govan, Scotland	1911
South American	Steel	2662	290.6	47.1	18		510	Ecorse, Michigan	1914
Ste. Claire	Steel	870	181	50	17.6		2700	Toledo, Ohio	1910
St. Lawrence (Can.)	Steel	6328	329	68	17.9				1927
Straits of Mackinac	Steel	736	196.1	48.1	14.7	47 Autos	416	Great Lakes Eng'r. Works River Rouge, Michigan	1928
Tadoussac (Can.)	Steel	7013	350	70	21			Levis, Quebec	1927
Toronto (Can.)	Steel	2779	269.4	36	13.8			Toronto, Ontario	1899
Trillium (Can.)	Steel	673	135	30	8.4			Toronto, Ontario	1910
Vacationland	Steel		360	73				Great Lakes Eng'r. Works River Rouge, Mich.	1952
Victoria	Steel	596							
Wayne	Steel	380	134.1	45	15.3	32 Autos	1000	Ecorse, Michigan	1923
Western States	Steel	3077	350	44	19.6	445	1716	Wyandotte, Michigan	1902
Wolfe Islander (Can.)	Steel	226	172	34		28 Autos	400		

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## TANKERS ON THE GREAT LAKES

195

NAME	Built of	Gross Tonnage	DIMENSIONS			Tanks	Pumps	CAPACITY	Owner or Manager	Year Built
			Lgth.	Beam	Depth					
Allen, Martha	Steel	2935	334	51.2	18.6	15	Oil 2	35,714 Bbls.	Lake Tankers Corp. East Chicago, Ill.	1928
Amsterdam Socony	Steel	1199	252	40.1		7	1	16,201 Bbls.	Socony Vacuum Oil Co., Inc., New York, N. Y.	1924
Bayshell, M.V. (Can.)	Steel	892	199.7	13.8	14.6			11,500 Bbls.	Shell Canadian Tankers, Ltd. Toronto, Ont.	1930
Blue Comet M. V.	Steel	943	260	40	14	7		13,000 Bbls.	Socony Vacuum Oil Co., Inc., New York, N. Y.	1930
Blue Cross (Can.)	Steel	1786	255	43.7	19.11			21,000 Bbls. Crude	Shell Canadian Tankers, Ltd., Toronto, Ontario	1930
Boston Socony M. V.	Steel	1199	252.9	40		7		16,419 Bbls.	Socony Vacuum Oil Co., Inc., New York, N. Y.	1924
Britamette (Can.)	Steel	243	130	20	8.6			2,399 Bbls.	British American Oil Co., Ltd., 26 Front St., Toronto, Ont.	1931
Britamlube (Can.)	Steel	1931	250	43	18			21,504 Bbls.	British American Oil Co., Ltd., 26 Front St., Toronto, Ont.	1932
Britamoco (Can.)	Steel	1932	250	43	18			21,504 Bbls.	British American Oil Co., Ltd., 26 Front St., Toronto, Ont.	1932
Britamoil (Can.)	Steel	1931	250	43	18			21,504 Bbls.	British American Oil Co., Ltd., 26 Front St., Toronto, Ont.	1931
Britamolene (Can.)	Steel	1931	250	43	18			21,504 Bbls.	British American Oil Co., Ltd., 26 Front St., Toronto, Ont.	1931
Burlington Socony	Steel	1199	252.9	40.1		7		13,500 Bbls.	Socony Vacuum Oil Co., Inc., New York, N. Y.	1924
Cedarbranch (Can.)	Steel	1700	248.2	40.10	18			14,295 Bbls.	Branch Lines, Ltd., Sorel, Que.	1903
Comet	Steel	2987	322	43	26	8	Steam	35,890 Bbls.	Cleveland Tankers, Inc., Cleveland, Ohio	1913
Coastal Carrier (Can.)	Steel	1040	242.6	36.1	12.9				Coastal Carriers, Ltd. Montreal, Quebec	1921
Coastal Creek (Can.)	Steel	2412	250	42.9	26.6				Coastal Carriers, Ltd. Montreal, Quebec	1927
Cowan, Wm. P.	Steel	5429	420	55	28	9	3	63,170 Bbls.	Standard Oil Co., Indiana Chicago, Ill.	1918
Eastern Shell (Can.)	Steel	1852	253	43.5	17.6			22,000 Bbls.	Shell Canadian Tankers, Ltd. Toronto, Ont.	1932
Edgewater (M.V.)	Steel	1819	288	43	20			30,000 Bbls.	Cleveland Tankers, Inc. Cleveland, Ohio	1931





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## TANKERS ON THE GREAT LAKES

197

NAME	Built of	Gross Tonnage	DIMENSIONS			Tanks	Pumps	CAPACITY	Owner or Manager	Year Built
			Lgth.	Beam	Depth					
Esso Delivery II (M.V.)	Steel	1199	252.9	40.11		7		15,476 Bbls.	Socony Vacuum Oil Co., Inc. New York, N. Y.	1924
Fueloil (Barge)	Steel	298	152	24	9	6	1	4,500 Bbls.	Great Lakes Transp. Co., Detroit, Mich.	1934
Harmony M. V.	Steel	890	212	37	13.9	10		11,074 Bbls.	Gulf Refining Co., New York, N. Y.	1931
Hudson, Bruce (Can.)	Steel	753	172	30.6	16			8,700 Bbls.	Lloyd Tankers, Ltd., Toronto, Ont.	1935
Imperial Cobourg (Can.)	Steel	2253	249.6	43.1	21.0	5	4	24,750 Bbls.	Imperial Oil Ltd. Toronto, Ontario	1913
Imperial Collingwood (Can.)	Steel		252.0	43.6	18.0	4	2	24,500 Bbls.	Imperial Oil Ltd. Toronto, Ontario	1947
Imperial Cornwall (Can.)	Steel	1919	250.0	43.0	18.0	5	2	21,500 Bbls.	Imperial Oil Ltd. Toronto, Ontario	1930
Imperial Goderich (M.V.) (Can.)	Steel	1560	230.8	39.8	18.6	5	4	13,200 Bbls.	Imperial Oil Ltd. Toronto, Ontario	1938
Imperial Hamilton (Can.)	Steel	2060	250.0	43.1	18.2	5	2	21,000 Bbls.	Imperial Oil Ltd. Toronto, Ontario	1916
Imperial Kingston (Can.)	Steel	2060	250.0	43.0	18.0	5	2	21,000 Bbls.	Imperial Oil Ltd. Toronto, Ontario	1916
Imperial Lachine (Can.)	Steel	716	175.0	35.0	13.0	3	2	7,350 Bbls.	Imperial Oil Ltd. Toronto, Ontario	1930
Imperial Leduc (Can.)	Steel	15800	620	68	35	27	3 Turbo Centf	115,000 Bbls.	Imperial Oil Ltd. Toronto, Ontario	1951
Imperial London (Can.)	Steel	2130	252.0	43.6	18.0	4	2	24,500 Bbls.	Imperial Oil Ltd. Toronto, Ontario	1947
Imperial Midland (Can.)	Steel	2631	250.0	43.9	25.0	5	2	28,300 Bbls.	Imperial Oil Ltd. Toronto, Ontario	1918
Imperial Ottawa (Can.)	Steel	715	175.0	35.0	13.0	3	2	7,350 Bbls.	Imperial Oil Ltd. Toronto, Ontario	1930
Imperial Redwater	Steel	15800	620	68	35	27	3 Turbo Centf	115,000 Bbls.	Imperial Oil Ltd. Toronto, Ontario	1951
Imperial Sarnia (Can.)	Steel		380.0	53.0	26.0	7	2	55,000 Bbls.	Imperial Oil Ltd. Toronto, Ontario	1948
Imperial Simcoe (Can.)	Steel	1919	250.0	43.0	18.0	5	2	21,500 Bbls.	Imperial Oil Ltd. Toronto, Ontario	1930
Imperial Vancouver (M.V.) (Can.)	Steel	1560	230.0	39.8	18.5	5	4	13,596 Bbls.	Imperial Oil Ltd. Toronto, Ontario	1938

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199

NAME	Built of	Gross Tonnage	DIMENSIONS			Tanks	Pumps	CAPACITY	Owner or Manager	Year Built
			Lgth.	Beam	Depth					
Imperial Welland (Can.)	Steel	2052	250.0	43.1	18.0	5	2	21,000 Bbls.	Imperial Oil Ltd. Toronto, Ontario	1916
Imperial Woodbend (Can.)	Steel	15800	620	68	35	27	3 Turbo Centl.	115,000 Bbls.	Imperial Oil, Ltd., Toronto, Ont.	1952
Imperial Windsor (Can.)	Steel	1930	250.0	43.2	18.0	5	2	21,500 Bbls.	Imperial Oil Ltd. Toronto, Ontario	1927
Joan Virginia (Can.)	Steel	1239	219.5	34.3	14.9			11,500 Bbls.	Lloyd Tankers, Ltd., Toronto, Ont.	1919
Lakeshell (Can.)	Steel	2238	259	43.6	20			26,000 Bbls.	Shell Canadian Tankers, Ltd., Toronto, Ont.	1940
Lubrolake (M.V.)	Steel	1518	258	43	16.5	5	Motor	22,000 Bbls.	Cleveland Tankers Cleveland, Ohio	1937
Maine	Steel	2841	361	43.1	25.6	16	10	38,000 Bbls.	The Texas Co., New York, N. Y.	1921
Makaweli (Can.)	Steel	2630	253.5	43	27.5				Lakeland Tankers, Ltd. Toronto, Ont.	1919
Maplebranch (Can.)	Iron	1014	231	35.6	24.6			6,000 Bbls.	Branch Lines, Ltd., Sorel, Que.	1872
Meteor	Steel	2646	366	45	26		Steam	22,000 Bbls.	Cleveland Tankers, Cleveland, Ohio	1896
Mexoil	Steel	1370	242.5	36.5	19.7	2	2	16,666 Bbls.	Great Lakes Transport Corp., Detroit, Mich.	1918
Michigan	Steel	3804	370	48.2	28	16	4	46,000 Bbls.	Texas Company, New York, N. Y.	1902
New Haven Socony M. V.	Steel	1242	251.3	40		7		14,285 Bbls.	Socony Vacuum Oil Co., New York, N. Y.	1934
Nonox M. V.	Steel		200	38	13.9			10,700 Bbls.	Gulf Oil Corp., New York, N. Y.	1929
Oakbranch (Can.)	Steel	1603	250	42.7	15			17,000 Bbls.	Branch Lines, Ltd., Sorel, Que.	1904
Oil Transporter, M. V. (Can.)	Steel	1719	251	43	16.4			20,500 Bbls.	Gayport Shipping, Ltd., Toronto, Ont.	1936
Panoil	Steel	1370	246.6	36.7	19		2	16,666 Bbls.	Great Lakes Transport Co., Detroit, Mich.	1920
Paratex	Steel	1541	250.6	43	17.6	12		20,000 Bbls.	Gulf Oil Co., Philadelphia, Pa.	1938
Parks Beaumont	Steel	4154	380	52	25	7	3	43,788 Bbls.	Standard Oil Co. of Indiana Chicago, Ill.	1912



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*"Manitowoc's Leading Hotel"*

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TO EAT?**

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Dinners**

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Steaks**

**Tasty Lunches**

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**Bar and Cocktail  
LOUNGE**

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**on tap—BEER—on tap**

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MANITOWOC  
Come up and  
Meet**

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O'DONNELL  
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**Ray Arsineau  
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GREET YOU  
WITH  
A SMILE**

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**All Fire-Proofed  
Hotel**

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Rooms**

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Can Dock Steamers up to 650 feet.**

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Auxiliary Equipment, Etc.**

**MANITOWOC**

**-**

**WISCONSIN**

## TANKERS ON THE GREAT LAKES

201

NAME	Built of	Gross Tonnage	DIMENSIONS			Tanks	Pumps	CAPACITY	Owner or Manager	Year Built
			Lgth.	Beam	Depth					
Pierce, Daniel	Steel	4887	399.6	53	28	22	2 Recp.	48,000 Bbls.	Sinclair Refining Co., New York, N. Y.	1921
Pinebranch (Can.)	Steel	1447	246.3	40	24.9			26,700 Bbls.	Marine Industries, Inc. Sorel, Que.	1895
Plattsburg Socony M. V.	Steel	1242	251.3	40		7		14,285 Bbls.	Socony Vacuum Oil Co., New York, N. Y.	1934
Polaris M. V.	Steel	3749	316	50	25.2	10	3 Cent. 3 Rotary	35,000 Bbls.	Cleveland Tankers, Inc. Cleveland, Ohio	1945
Poplarbranch M. V. (Can.)	Steel	2415	251.3	43.9	24				Marine Industries, Inc. Sorel, Que.	1944
Poughkeepsie Socony M. V.	Steel	1235	251.3	40		7		16,428 Bbls.	Socony Vacuum Oil Co., New York, N. Y.	1934
Providence Socony M. V.	Steel	1199	282.9	40.1		7		13,500 Bbls.	Socony Vacuum Oil Co., Inc., New York, N. Y.	1924
Red Crown	Steel	5443	453.4	55.2	28	8	2	66,681 Bbls.	Standard Oil Co., Indiana Chicago, Ill.	1937
Regent M. V.	Steel	1211	247	40	14.6			16,000 Bbls.	Gulf Oil Corp., New York, N. Y.	1934
River Shell, M.V. (Can.)	Steel	836	179	34	15			11,000 Bbls.	Shell Canadian Tankers, Ltd. Toronto, Ont.	1933
Rocket	Steel	2487	350	43	25	9	Steam	42,000 Bbls.	Cleveland Tankers, Inc., Cleveland, Ohio	1913
Rome Socony M. V.	Steel	1194	252.9	40.1		7		14,174 Bbls.	Socony Vacuum Oil Co., New York, N. Y.	1924
S. O. Co. "C" (Barge)	Iron	3200	366	44	22.2	5	2	38,000 Bbls.	Standard Oil Co., Indiana Chicago, Ill.	1891
Schenectady Socony M. V.	Steel	1199	252.9	40.1		7		16,349 Bbls.	Socony Vacuum Oil Co., Inc., New York, N. Y.	1924
Servishell (Can.)	Steel	1448	39	11.2	6.8			100 Bbls.	Shell Canadian Tankers, Ltd., Toronto, Ont.	1937
Seubert, Edw. G.	Steel	4432	390.3	53.3	27	7	2	50,720 Bbls.	Standard Oil Co., Indiana Chicago, Ill.	1930
Sidney (Barge)	Steel		195	35	9.9				Latonia Refining Co., Cleveland, Ohio	1939
Stewart, Robt. W.	Steel	4161	380	52	25	7	3	50,542 Bbls.	Standard Oil Co., Indiana Chicago, Ill.	1928
Supertest M. V. (Can.)	Steel	151	101.3	20	7.6				Pioneer Transportation Co., Ltd., London, Ont.	1928

# **NORMINGTON'S**

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## TANKERS ON THE GREAT LAKES

203

NAME	Built of	Gross Tonnage	DIMENSIONS			Tanks	Pumps	CAPACITY	Owner or Manager	Year Built
			Lgth.	Beam	Depth					
Supreme M. V.	Steel	890	212	37	13.9	10		11,015 Bbls.	Gulf Oil Corporation New York, N. Y.	1931
Taurus	Steel	1199	252.9	40.1	12.8			16,419 Bbls.	Socony Vacuum Oil Co., Inc. New York, N. Y.	1924
Texaco 379 (Barge)	Steel	1062	210	40.6		12		17,085 Bbls.	Texas Company, Chicago, Ill.	1935
Texaco 397 (Barge)	Steel	895	210	40		10		14,040 Bbls.	Texas Company, Chicago, Ill.	1936
Texaco 155 (Barge)	Steel	582	175.6	33.1	13.6			8,928 Bbls.	Texas Company, Chicago, Ill.	1919
Texaco Brave (Can.)	Steel	1926	250	43.2	18			21,500 Bbls.	McColl-Frontenac Oil Co., Ltd. Toronto, Ontario	1929
Texaco Chief (Can.)	Steel	2500	250	43.4	24.6			28,000 Bbls.	McColl-Frontenac Oil Co., Ltd. Toronto, Ontario	1930
Texaco Warrior (Can.)	Steel	2500	250	43.4	24.6			28,000 Bbls.	McColl-Frontenac Oil Co., Ltd. Toronto, Ontario	1930
Transbay (Can.)	Steel	949	219.5	24.2				12,500 Bbls.	Transit Tankers and Terminals, Ltd., Montreal, Que.	1912
Transford II M. V.	Steel	1703	245	40.1	18.7			19,000 Bbls.	American Petroleum Transport Corp., New York, N. Y.	1920
Transinland, M. V. (Can.)	Steel	1946	250.3	42.9	17.3			22,000 Bb's.	Transit Tankers & Terminals, Ltd., 31 St. James St., Montreal, Quebec	1926
Transiter (Can.)	Steel	1117	180	34	17.6				Transit Tankers and Terminals, Ltd., Montreal, Ont.	1935
Translake (Can.)	Steel	1263	219.5	24.2				12,500 Bbls.	Transit Tankers and Terminals, Ltd., Montreal, Que.	1921
Transriver (Can.)	Steel	1238	219.5	34.2	13.9			12,500 Bbls.	Transit Tankers and Terminals, Ltd., Montreal, Que.	1920
Transtream (Can.)	Steel	1335	242	34	15.6			18,000 Bbls.	Transit Tankers and Terminals, Ltd., Montreal, Que.	1935
Traverse City Socony M. V.	Steel	2231	280.4	49.6	20.6	6		28,794 Bbls.	Socony Vacuum Oil Co., New York, N. Y.	1938
Westcoat, L. S.	Steel	4068	400.7	48.3	23.9	16	4	48,000 Bbls.	Pure Oil Co., Detroit, Mich.	1898
Willowbranch (Can.)	Steel	2153	259	43.6	20			26,800 Bbls.	Branch Lines, Ltd.	1950



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DRY DOCKS OF THE GREAT LAKES

PLACE	NAME OF DOCK	LENGTH		WIDTH		Over Sill Depth
		On Blocks	Over All	Gate	Top	
Ashtabula, O. ....	Great Lakes Engineering Works .....	600	650	72	102	16
Ashtabula, O. ....	Great Lakes Engineering Works, graving dock .....	636	664	78	102	16
Bay City, Mich. ....	James Davidson .....	415	435	60	100	14½
Bay City, Mich. ....	James Davidson .....	290	315	42½	70	13
Buffalo, N. Y. ....	American Shipbuilding Co. No. 1 .....	447	470	58 8	61 10	13 6
Buffalo, N. Y. ....	American Shipbuilding Co. No. 2 .....	600	630	71 10	81 2	13 10
Buffalo, N. Y. ....	American Shipbuilding Co. No. 3 .....	372	401	49 4	53	14 6
Buffalo, N. Y. ....	Empire Shipbuilding Co. ....					
Buffalo, N. Y. ....	Empire Shipbuilding Co. ....					
So. Chicago, Ill. ....	American Shipbuilding Co. No. 1 .....	547	570	52	71 8	15
So. Chicago, Ill. ....	American Shipbuilding Co. No. 2 .....	667 9	727 4	79 10	90 2	16
Collingwood, Ont. ....	Collingwood Shipbuilding Co., Ltd. ....	514	520	55	60	16½
Detroit, Mich. ....	Walter H. Oades Marine Ry. ....	186	---	---	---	11 feet
Duluth, Minn. ....	Marine Iron & Ship Bldg. Co. ....	60	---	60	60	13
Houghton, Mich. ....	Joseph Croze .....	75	100	26	26	10
Kingston, Ont. ....	Davis Dry Dock Co. ....	180	180	31	40	9
Kingston, Ont. ....	Kingston Dry Dock Co. ....	280	300	55	79	{ 14 6 low 16 high
Kingston, Ont. ....	Government Dock .....					
Levis, Quebec .....	Geo. T. Davie & Sons .....					
Lorain .....	American Shipbuilding Co. No. 1 .....	534	586	60	66	14 6
Lorain .....	American Shipbuilding Co. No. 2 .....	684	736	75	80	14 6
Manistee, Mich. ....	Manistee Iron Works Co. ....					
Manitowoc, Wis. ....	Manitowoc Shipbuilding & Dry Dock Co. Floating Dock .....		600		88	15
Montreal, Quebec .....	A. Cantlin, Canada Marine Works .....	200	200	46	90	11
	J. H. & T. C. Goble, Ontario Dry Dock .....	150	165	36	50	11
Oswego, N. Y. ....	Owen Sound Dry Dock & Shipbuilding Co., Ltd. ....	275	300	48½	63½	9

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**FRUITS - VEGETABLES**

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**SERVICE**

**Phone 4633**

**Frank E. "Red" Wechter**

DRY DOCKS OF THE GREAT LAKES

PLACE	NAME OF DOCK	LENGTH		WIDTH		Over Sill Depth
		On Block	Over All	Gate	Top	
Port Arthur, Ont. ....	Port Arthur Shipbuilding Co. ....	390	412	—	62	13 ½
Port Dalhousie, Ont. ....	Muir Brothers .....	412	—	62	—	18
Port Huron, Mich. ....	Reid Wrecking Co., graving dock .....	234	236	41	—	12
River Rouge, Mich. ....	Great Lakes Engineering Works .....	610	626	—	94	16
River Rouge, Mich. ....	Great Lakes Engineering Works .....	150	162 ½	—	94	16
Rocky River, Ohio .....	Rocky River Dry Dock Co. ....	—	—	—	—	—
Saginaw, Mich. ....	Clarke, Stickney & Cram, marine railway .....	130	130	29	29	9
Sandusky, Ohio .....	The Lake Erie Dry Dock & Mill Co. ....	160	—	—	—	8 ½
Sault Ste. Marie, Mich. ....	Hickler Bros. Marine Ry., 1,000 tons capacity .....	—	—	—	—	13 ½ aft
Sturgeon Bay, Wis. ....	Sturgeon Bay S. S. Co., four sets of floating dry docks, 70, 100, 150 and 215 ft., length on blocks, respectively .....	—	—	—	52	13
Superior, Wis. ....	Knudsen Bros. Shipbuilding Co. ....	570	609	60 6	66	13 6
Superior, Wis. ....	Knudsen Bros. Shipbuilding Co. ....	578	620	60 6	66 6	17 6
Toledo, O. ....	A. Gilmore's Sons .....	230	235	37	55	9 ½
Toledo, O. ....	The Toledo Shipbuilding Co., No. 2 .....	550	570	58 70 ½ 77 ½	103	14
Toronto, Ont. ....	Peter Arnot .....	125	200	32	32	10 6
Wyandotte, Mich. ....	Davis Boat & Car Co., marine railway .....	140	—	—	—	12



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## LAKE VESSELS COMPARTMENT CARRYING CAPACITIES FOR COAL AND GRAIN

209

VESSEL	COAL							Total	GRAIN							Total
	1	2	3	4	5	6	7		1	2	3	4	5	6	7	
Acadian (Can.)	1100	1100	500	-----	-----	-----	-----	2700	38000	37000	18000	-----	-----	-----	-----	93000
Adams, Cuyler	1900	2000	2500	3000	-----	-----	-----	9400	70000	70000	90000	90000	-----	-----	-----	320000
Adriatic	2100	1900	1900	2100	-----	-----	-----	8000	64000	66000	68000	72000	-----	-----	-----	278000
Affleck	4900	4100	4700	-----	-----	-----	-----	13700	-----	-----	-----	-----	-----	-----	-----	-----
Algocen (Can.)	2700	2700	2700	2700	-----	-----	-----	10800	92500	92500	92500	92500	-----	-----	-----	370000
Algorail (Can.)	1650	1100	1100	1650	-----	-----	-----	5500	60000	40000	40000	60000	-----	-----	-----	200000
Algosoo (Can.)	1900	1800	1900	-----	-----	-----	-----	5600	60000	92000	64000	-----	-----	-----	-----	216000
Algosteel (Can.)	3400	3000	3100	-----	-----	-----	-----	9500	109000	98000	105000	-----	-----	-----	-----	312000
Algoway (Can.)	2000	2400	2200	-----	-----	-----	-----	6600	60000	92000	64000	-----	-----	-----	-----	216000
Allison (Can.)	1400	1600	-----	-----	-----	-----	-----	3000	50000	60000	-----	-----	-----	-----	-----	110000
Alpena	1300	1400	800	-----	-----	-----	-----	3500	-----	-----	-----	-----	-----	-----	-----	-----
Altadoc (Can.)	1500	1400	1400	1200	-----	-----	-----	5500	55000	52000	51000	52000	-----	-----	-----	216000
Amazon	2200	2200	1900	-----	-----	-----	-----	6300	74000	71000	55000	-----	-----	-----	-----	200000
Angeline	2100	1900	1900	1300	-----	-----	-----	7200	75000	68000	67000	50000	-----	-----	-----	260000
Arcturus	2500	2500	2500	2500	-----	-----	-----	10000	100000	94000	70000	100000	-----	-----	-----	364000
Anderson, Arthur M.	6500	7000	6500	-----	-----	-----	-----	20000	221000	204700	200000	-----	-----	-----	-----	625000
Andrews, Mathew	3900	3600	3600	3900	-----	-----	-----	150000	125000	125000	125000	125000	-----	-----	-----	500000
Armstrong, Frank	3500	3900	3900	3200	-----	-----	-----	14500	120000	130000	130000	110000	-----	-----	-----	490000
Ashcroft (Can.)	3500	2700	2700	3100	-----	-----	-----	12000	125000	90000	95000	100000	-----	-----	-----	410000
Ashtley, J. S.	1500	1300	1250	1200	1100	2150	-----	8500	-----	-----	-----	-----	-----	-----	-----	-----
Augustus, A. A.	2500	2600	2400	2600	-----	-----	-----	10100	82000	92000	94000	90000	-----	-----	-----	358000
Avery, Sewell	3500	3900	3900	3200	-----	-----	-----	14500	120000	130000	130000	110000	-----	-----	-----	490000
Ayers, J. Burton	3500	3900	3900	3200	-----	-----	-----	14500	120000	130000	130000	110000	-----	-----	-----	490000
Baker, Geo. F.	4400	4000	4300	-----	-----	-----	-----	12700	-----	-----	-----	-----	-----	-----	-----	-----
Ball Brothers	2500	2000	2000	3000	-----	-----	-----	9500	80000	70000	70000	100000	-----	-----	-----	320000
Barnes, A. M. (M. V.)	-----	-----	-----	-----	-----	-----	-----	1900	-----	-----	-----	-----	-----	-----	-----	-----
Barnes, Julius H. (M. V.)	-----	-----	-----	-----	-----	-----	-----	3200	-----	-----	-----	-----	-----	-----	-----	-----
Barnes, R. T. (M. V.)	-----	-----	-----	-----	-----	-----	-----	1900	-----	-----	-----	-----	-----	-----	-----	-----
Barrie (Can.)	1400	1600	-----	-----	-----	-----	-----	3000	46000	54000	-----	-----	-----	-----	-----	100000
Battleford (Can.)	1600	2300	1800	-----	-----	-----	-----	5700	50000	80000	60000	-----	-----	-----	-----	190000
Bayax (Can.)	750	750	-----	-----	-----	-----	-----	1500	-----	-----	-----	-----	-----	-----	-----	-----
Bayton (Can.)	2100	1900	1900	2100	-----	-----	-----	8000	60000	65000	65000	60000	-----	-----	-----	250000
Beaverton (Can.)	-----	-----	-----	-----	-----	-----	-----	24000	19000	19000	20000	-----	-----	-----	-----	63000
Bennett, Viscount (Can.)	2500	2300	2300	2400	-----	-----	-----	9500	80000	80000	80000	80000	-----	-----	-----	320000
Berwind, Edw. J.	3800	3400	3400	3600	-----	-----	-----	14200	120000	119000	119000	117000	-----	-----	-----	475000
Bethlehem	4800	4400	4500	-----	-----	-----	-----	13700	156000	148000	156000	-----	-----	-----	-----	460000
Billings, Frank	3000	3000	3000	-----	-----	-----	-----	9000	101000	113000	101000	-----	-----	-----	-----	315000
Birchton (Can.)	1000	1000	1000	-----	-----	-----	-----	3000	30000	26000	38000	-----	-----	-----	-----	94000
Block, E. J. (M. V.)	3500	3900	3500	-----	-----	-----	-----	109000	130000	140000	117000	-----	-----	-----	-----	387000
Block, Joseph	2900	2600	2900	3100	-----	-----	-----	11500	96000	93000	105000	107000	-----	-----	-----	400000
Block, L. E.	5200	4800	5000	-----	-----	-----	-----	15000	163000	155000	160000	-----	-----	-----	-----	480000
Block, P. D.	4500	6000	4500	-----	-----	-----	-----	15000	149000	223400	149500	-----	-----	-----	-----	521500
Blue River (M. V.) (Can.)	850	850	850	850	-----	-----	-----	3400	32000	34000	34000	25000	-----	-----	-----	125000
Boland, John J.	3400	2900	3200	-----	-----	-----	-----	9500	115000	102000	108000	-----	-----	-----	-----	325000
Bradley, Carl D.	3000	2500	1500	2500	2500	-----	-----	12000	-----	-----	-----	-----	-----	-----	-----	-----
Brampton (Can.)	1400	1600	-----	-----	-----	-----	-----	3000	50000	60000	-----	-----	-----	-----	-----	110000
Bricoldoc (Can.)	1200	1200	1200	1200	1200	1200	-----	7200	35000	45000	45000	45000	45000	40000	-----	255000
Brown Beaver (Can.)	1100	900	1000	-----	-----	-----	-----	3000	37000	20000	37000	-----	-----	-----	-----	94000
Brown, Fayette	2550	2750	2750	2550	-----	-----	-----	10600	84000	90000	91000	91000	-----	-----	-----	356000
Brown, Frank H. (Can.)	775	1200	575	-----	-----	-----	-----	2550	25500	40000	19500	-----	-----	-----	-----	85000
Brown, Harvey H.	2100	2800	2800	2800	-----	-----	-----	10500	93000	94000	94000	99000	-----	-----	-----	380000
Brown, J. J. H.	2300	2000	2000	2300	-----	-----	-----	8600	75000	70000	70000	75000	-----	-----	-----	29000
Browning, L. D.	6600	-----	-----	-----	-----	-----	-----	6600	220000	-----	-----	-----	-----	-----	-----	220000
Browning, Troy H.	5600	4700	5300	-----	-----	-----	-----	15600	186666	156650	176640	-----	-----	-----	-----	519956
Buckeye	2200	2800	2400	-----	-----	-----	-----	7400	73000	95000	73000	-----	-----	-----	-----	241000
Buckeye State	450	750	400	750	400	-----	-----	2750	13400	26500	12000	26500	10000	-----	-----	88400
Budd, Ralph (Can.)	-----	-----	-----	-----	-----	-----	-----	-----	33000	40000	67000	41000	42600	-----	-----	223600

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## LAKE VESSELS COMPARTMENT CARRYING CAPACITIES FOR COAL AND GRAIN

211

VESSEL	COAL							Total	GRAIN							Total
	1	2	3	4	5	6	7		1	2	3	4	5	6	7	
Buffington, Eugene J.	4550	4000	4450					13000								
Bunsen, R. W. E.	8300							8300								
Burke, Jos. P. (Can.)	1500	1400						2900	50000	64000						114000
Burlington (Can.)	1800	2300	2300	1200				7600	55000	90000	90000	45000				280000
Byers, A. M.	2500	2700	2700	2500				10400	79000	93000	93000	85000				350000
Cadillac	3500	3900	3900	3200				14500	120000	130000	130000	110000				490000
Cadwell, C. W. (Can.)								1100								
Callaway, Cason J.	6500	7000	6500					20000	21000	204000	200000					625000
Calcite	1000	2000	2000					5000								
Calgarian (Can.)									23000	18000	18000					59000
Calumet	2100	1900	1900	2100				8000	60000	71000	66000	66000				263000
Cambria	2900	2700	2600	2800				11000	95000	91000	90000	91000				367000
Campbell, J. A.	3400	4000	3400					10800	120000	135000	120000					375000
Canadian (Can.)									20000	23000	20000					63000
Canadoc (Can.)	1800	1800	1800	1800				7200	60000	65000	65000	60000				250000
Canopus	1800	2200	2200	1800				8000	61000	80000	82000	62000				285000
Carl, George M. (Can.)	1500	1500						3000	50000	64000						114000
Carmelfjell (Norw.)			Package	Freight												
Carrollton								2400								
Cartierdoc (Can.)	1400	1600						3000	50000	60000						110000
Casco (Can.)	800	1100	800					2700	27000	36000	25000					88000
Caulkins, Ralph S.	1700	1700	1700	1700				6800	60000	60000	60000	60000				240000
Cedarton (Can.)	800	700	1050					2550	30000	26000	38000					94000
Chacornac	1800	1700	1700	1100				6300	65000	62000	61000	40000				228000
Champlain	3500	3900	3900	3200				14500	120000	130000	120000	110000				490000
Chisholm, Alex D.	3800	4000	3700					11500	130000	125000	125000					380000
City of Hamilton (Can.)																
City of Kingston (Can.)																
City of Montreal (Can.)																
City of Toronto (Can.)																
City of Windsor (Can.)																
Clarke, E. A. S.	3300	3900	3300					10500	125000	120000	120000					365000
Clarke, Philip R.	6500	7000	6500					20000	21000	204000	200000					625000
Clayton (Can.)	1400	1600						3000	50000	60000						110000
Cleets, Geo. S. (Can.)	Stone	3000	Call	2850												
Clement, N. P. (Can.)	1200	1400						2600	40000	45300						85300
Clemson, D. M.	4900	4100	4700					13700								
Cleveland (M. V.)		900						2500	23500	30500	22500					76500
Cliffs Victory	2808	3100	3100	3000				12000	100000	110000	110000	120000				440000
Clyde, Wm. G.	4900	4100	4700					13700								
Clymen, Irvin L.	3000	1800	1800	3400				10000	Self Un	loader						
Coalfax (Can.)	775	1000	875					2650								
Coalhaven (Can.)	750	850	800					2400								
Cole, Thomas F.	4600	3900	4500					13000								
Collier (Can.)	1200	1200						2400								
Collingwood (Can.)	1300	1600	1600	1900				6400	40000	65000	60000	65000				230000
Collins	1700	1700	1700	1700				6800	60000	60000	60000	60000				240000
Colonel	1750	1150	1150	1750				5800	65000	43000	42000	65000				215000
Coniscliff Hall (Can.)	1400	1600						3000	55000	60000						115000
Conneaut	1500	2000	2500				2150	6000							2150	
Consumers Power	1500	1250	1250	2175	1250	1075		8500								
Conway, Carl C.	3900	3000	3900					10800	123000	139000	118000					380000
Corey, Wm. E.	5950	5750						11500								
Cornelius, Adam E.	1914	2164	1413	1409	2118	1430										
Cornell	5300	2600						7900								
Coulby, Harry	3700	4000	4000	3600				15300	130000	130000	130000	130000				520000
Coverdale (Can.)	3900	5000	5000	3900				17800	125000	162000	162000	126000				675000



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## LAKE VESSELS COMPARTMENT CARRYING CAPACITIES FOR COAL AND GRAIN

213

	COAL							GRAIN								
VESSEL	1	2	3	4	5	6	7	Total	1	2	3	4	5	6	7	Total
Cowle, John B.	2700	2600	2600	2700				10600	100000	97000	93000	100000				390000
Crawford, Geo. G.	4900	4000	4700					13600								
Crawford, W. D.	3000	2000	2000	3000				10000	90000	86000	87000	91000				354000
Crete.	2150	2100	2100	2150				8500	85000	80000	80000	85000				300000
Croft, Harry W.	3700	3600	3700					11000	128000	117000	125000					370000
Dalton, Henry G.	4200	4700	4100					13000	145000	155000	150000					450000
Damia (Can.)	1500	1500						3000	48000	48000						96000
Daniels, W. H. (Can.)	1200	1400						2600	40500	47500						88000
Davidson, James.	2400	2300	2200	2300	4200			13400	81000	81000	76000	77000	135000			450000
Davidson, James E.	2900	2400	2400	2900				10600	94000	82000	82000	94000				352000
Davin, John W.	2500	2400	2500	2600				10000	88000	86000	88000	90000				352000
Denmark	2300	2000	2000	2200				8500	80000	73000	70000	82000				305000
Detroit Edison	1000	1100	1600	1100	2100			6900								
Detroitier (M. V.)	800	900	800					2500	23500	30500	22500					76500
Diamond Alkali.	1600	2200	2200	2200	2100	1700		12000								
Dickson, Wm. B.	4600	4050	4450					13100								
Dinkey, Alva C.	4600	3900	4500					13000								
Donnaconda (Can.)	2400	1200	2400	1200	2400	3000		12600	80000	50000	80000	50000	90000	100000		450000
Donnelly, Charles									31000	23000	32000	23000	32000	44000		
												Tween	Decks			185000
Donner, Wm. H.	2700	2600	2500	2600				10400	95000	90000	80000	90000				355000
Douglass, Edwin T. (Can.)	1200	1400						2600	40500	47500						88000
Dow Chemical.	1000	625	625	1800	2100	2200		8350								
Dunlap, Chas. E.	2400	2300	2200	2300	4200			13400	81000	81000	76000	77000	135000			450000
Dunn, John, Jr.	2600	2600	2200	2600				10300	95000	95000	90000	95000				375000
Durston, J. F.	1900	2100	1800	2000				7800	68000	75000	64000	73000				280000
Eads, James B. (Can.)	1400	1800	2300					5500	44000	66000	82000					192000
Eaglescliffe Hall (Can.)	1450	1380						2800	75000	69000						144000
Easton (Can.)	800	800	800					2400	34500	28500	33500					96500
Eaton, Geo. L. (Can.)	1400	1600						3000	55000	60000						115000
Edenborn, Wm.	9100							9100								
Edmonton (Can.)									24000	20000	20000	Between	Deck	25000		90000
Eglinton Park (Can.)																
Elba	2100	1900	1900	2100				8000	60000	70000	68000	70000				268000
Elgin (Can.)	1000	1500	800					3300	33000	52000	26000					111000
Ellwood, Issac L.	9100							9100								
Elmbay (Can.)	650	500	450					1600	21700	16700	15000					53400
Empire State																
Ericsson, John (Can.)	1700	1600	1600	1100				6000	43100	57400	57000	35700				193200
Evertton (Can.)	9000							9000	29250							292500
Ewig, Harry T.	1700	2300	1600					5600	50000	102000	50000					200000
Fairbairn, Sir. Wm.	2000	1500	1500	1600				6600	62000	45000	45000	48000				200000
Fairless, Benjamin F.	6300	5400	6300					18000	210000	180000	210000					600000
Fairmount (Can.)	1000	850	1150					3000	34000	27000	37000					98000
Farr, Merton E.	2400	2300	2200	2300	4200			13400	81000	81000	76000	77000	135000			450000
Farrandoc	1600	1400						3000	46000	44000						90000
Farrell, James A.	4650	3800	4550					13000								
Fellowcraft	2500							2500								
Ferbert, A. H.	6300	5400	6300					18000	210000	180000	210000					600000
Fernie (Can.)																
Ferris, James E.	3000	3000	3000					9000	101000	113000	101000					315000
Fiertz, Robt. B.																
Filbert, Wm. J.	4900	4000	4700					13600								
Findlay, Harry L.	2900	2700	2900	2700				11200	95000	95000	95000	95000				380000
Fink, Geo. R.	3900	3000	3900					11800	123000	139000	118000					380000
Finland	2500	3000	2500	2500				10500	95000	105000	95000	95000				390000

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MILWAUKEE, WISCONSIN

## LAKE VESSELS COMPARTMENT CARRYING CAPACITIES FOR COAL AND GRAIN

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	COAL							GRAIN								
VESSEL	1	2	3	4	5	6	7	Total	1	2	3	4	5	6	7	Total
Firbranch																
Fitzgerald, Wm. E.	3500	4000						7500								
Fontana	950	1100	1600	950				4600								
Ford Benson (M. S.)	4450	4200	4300					12950	148300	139700	141800					429800
Ford, Emory L.	4800	4300	4700					13800	170000	150000	155000					475000
Ford, Henry II (M. S.)	4800	4350	4500					13650	158700	145000	149600					453000
Fort Wildoc (Can.)	1800	1800	1800	1800				7200	60000	65000	65000	60000				250000
France, John A. (Can.)	1500	1500						3000	50000	64000						114000
Franquelin (Can.)	800	800	800	800				3200	30000	32000	32000	30000				124000
Frantz, Jos. H.	3250	4000	4000	3250				14500	120000	120000	120000	120000				480000
Fraser, Leon	6300	5400	6300					18000	210000	180000	210000					600000
Frick, Henry C.	5950	5750						11500								
Frontenac	3700	3000	3000	3500				13200	107000	114000	112000	112000				445000
Gallagher, Michael	1900	2000	2000	2100				8000	64000	75000	76000	75000				290000
Galloway, Chas. W.	2400	2800	2800	2800				10800	74000	93000	93000	96000				356000
Gary, Elbert H.	5950	5750						11500								
Gates, John W.	9100							9100								
G'lies, Donald B.	3500	4000	3500					11000	120000	135000	120000					375000
Girdler, Tom M.	5600	4700	5300					15600	186666	156650	176640					519956
Gl-neagles (Can.)	3300	3150	3150	2900				12500	115000	100000	100000	95000				410000
Glenelg (Can.)	900	750	750					2400								
Glitrejell (Norw.)																
Goderich (Can.)	2900	2900	3400					9200	93000	115000	115000					323000
Grace, E. G.	3500	3900	3900	3200				14500	120000	130000	130000	110000				490000
Grainmotor (Can.) (M.V.)	1500	1750						3250	57000	57000						108000
Grand Island	1300	2300	2300	2700				8600	50000	90000	90000	95000				325000
Green, Edward B.	65000	70000						20000								660000
Grey Beaver (Can.)	1100	900	1100					3000	37000	20000	37000					94000
Hagarty (Can.)	2300	1900	1100	1100	1900	2300		10600	70000	65000	50000	50000	70000	75000		380000
Hamildoc (Can.)	1000	1000	1000					3000	29500	28500	27000					85000
Hanna, Howard M., Jr.	2400	2700	2700	2700				10500	70000	93000	93000	93000				350000
Hanna, Leonard C.	3900	3500	3600					11000	130000	115000	125000					370000
Harvard	7900							7900								
Harvester, The	4000	3850	3900					4750	134000	127000	130000					391000
Harvey, A. F.	4900	4100	4700					13700								
Hastings (Can.)	1000	1500	800					3300	33000	52000	26000					111000
Hatfield, Joshua A.	4700	4300	4600					13600								
Hebard, Chas. S.	2600	2600	2600	2500				10300	80000	90000	85000	95000				350000
Heekin, Albert E.	3800	3200	3800					10800	125000	135000	125000					380000
Hemlock	1700	1800	1800	1900				7200	64000	66000	68000	72000				270000
Hennepin	2400	2300	2400	2400				9500	80000	86000	100000	84000				350000
Heron Bay (Can.)	1200	1100	1000	1000	1200			5500	45000	40000	35000	35000	45000			200000
Hewitt, Fred L.	7300							7300	23800							238000
Hill, James J.	9100							9100								
Hill, Louis W.	3800	3200	3800					10800	125000	135000	125000					380000
Hillman, J. H., Jr.	3500	3900	3900	3200				14500	120000	130000	130000	110000				490000
Hindman, Geo. (Can.)	1000	1400						2400	58000	60000						118000
Hindman, Howard (Can.)								2800								
Hindman, Blanche	750	600	750					2100	24000	20000	25000					69000
Hindman, Helen (Can.)	750	600	750					2100	24000	20000	25000					69000
Hobson, Robert	3000	3500	3500	3000				13000	115000	110000	115000	110000				450000
Hochelaga (Can.)	3900	5000	5000	3900				17800	125000	162000	162000	126000				675000
Holloway, W. W.	3200	2800	2800	3000				11800	100000	93000	92000	100000				385000
Hood, Clifford F.	6800							6800	240000							240000
Hosford, Harry W.	1700	1700	1700	2200	1700			9000	56000	59000	59000	80000	60000			314000
Houghton, Doug. (Can.)	4100	4100						8200	125000	125000						250000



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## LAKE VESSELS COMPARTMENT CARRYING CAPACITIES FOR COAL AND GRAIN

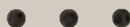
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VESSEL	COAL							Total	GRAIN							Total
	1	2	3	4	5	6	7		1	2	3	4	5	6	7	
House, Francis E.	4900	4000	4700					13600								
Hoyt, Elton, 2nd	4800	4300	4300	4600				18000	145000	142000	142000	144000				575000
Hubbard, Chas.	1900	1800	1800	2300				7800	66000	66000	66000	82000				280000
Hubson, A. A. (Can.)	1000	1100	1000					3100	25000	18000	20000	Between Deck		54000		117000
Hulst, John	4800	4000	4700					13500								
Humberdoc	700	1200	500					2400	23000	42000	16000					81000
Huntley, Chas. R. (Can.)	1200	1400						2600	42000	48000						90000
Huron	1500	2000	2500					6000								
Hutchinson, Chas. L.	3860	4375	4285	4560				17080	126667	14000	137333	146000				547000
Hutchinson, Gene C.	4000	4000	4000					12000	156000	131000	148000					435000
Hutchinson, John T.	3500	3900	3900	3200				14500	120000	130000	130000	110000				490000
Ingalls, Geo. H.	2900	2600	2500					8000	100000	87000	87000					274000
Inkster, Walter (Can.)	1150	1150	1000					3300	38500	38500	33000					110000
Inland (M. V.)	1600	1400						3000								
International, The	4600	4500	4000					13100	162000	153000	135000					450000
Ireland, Robert L.	2700	2600	2700	2800				10800	95000	91000	95000	97000				378000
Ironwood	1600							1600								
Irvin, Wm. A.	4800	4000	4700					13500								
Iselin, Adrian	1400	1600						3000	46000	53000						99000
Ishpeming	2750	2750	2750	2750				11000	90000	100000	100000	90000				380000
Johnson, Horace	4900	4100	4700					13700								
Joliet	3000	2100	2100	3000				10200	90000	85000	85000	90000				350000
Jones, B. F.	4000	3400	4100					11500	121000	133000	121000					375000
Jones, Harry R.	1800	2300	2700	1400				8200	65000	80000	94000	51000				290000
Jupiter	1800	2300	1800					5900	55000	75000	60000					190000
Kendrick, Edward S.	2500	2600	2500	2600				10200	90000	92000	90000	92000				364000
Kenefick, Judge (Can.)	1400	1600						3000	41500	47500						89000
Kenora (Can.)									24000	19000	20000					63000
Kermie (Can.)																
Kerr, D. G.	4900	4100	4700					13700								
Keybar (Can.)	1100	1100	600					2800	28000	27000	25000					80000
Keybell (Can.)	1100	800	1100					3000	28000	26000	28000					82000
Keydon (Can.)	900	1000	700					2600	28000	29800	24200					82000
Keyholt (Can.)	1000	900	800					2700	29500	28500	27000					85000
Keynor (Can.)	1100	1100	900					3100	25000	40000	15000					80000
Keyport (Can.)	1100	1200	700					3000	25000	40000	15000					80000
Keyshey (Can.)	1000	900	850					2750	29500	28500	27000					85000
Keystate (Can.)	1100	1100	600					2800	28000	27000	25000					80000
Keyvive (Can.)	1100	1100	900					3100	28000	25000	27000					80000
Keywest (Can.)	900	1000	700					2600	28000	29800	24200					82000
King, Willis L.	4600	3800	4500					12900	149000	138000	138000					425000
Kingdoc (Can.)	1400	1600						3000	50000	60000						110000
Kinmount (Can.)	900	1400	800					3100	30000	45000	26000					101000
Kinney, A. T.	2500	2700	2300	2800				10300	80000	90000	85000	95000				350000
Kling, John A.	1500	800	1400	1700	1400	1700	1400	9900								
Kapmeier, Norman J.	2700	1700	1700	2000	1200			9300								
Kulas, E. J.	2800	3600	3600	2900				12900	110000	110000	110000	110000				440000
Labelle	2800	2050	2350	2800				10000	84000	92000	94000	84000				354000
Lackawanna	4300	3800	3700					11800	137000	127000	126000					390000
Lagonda	5200							5200	175000							175000
Laketon (Can.)	1800	1700	1800	1700				7000	60000	65000	65000	60000				250000
Lamont	4900	4100	4700					13700								
LaSalle	2700	3000	3000	2600				11300	90000	102500	102500	90000				385000
Laughlin, James	4000	3400	4100					11500	121000	133000	121000					375000

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## GRAIN

VESSEL	1	2	3	4	5	6	7	Total	1	2	3	4	5	6	7	Total
Lavaldoc (Can.)	1400	1600	.....	.....	.....	.....	.....	3000	50000	60000	.....	.....	.....	.....	.....	110000
Lawrendoc (Can.)	1400	1600	.....	.....	.....	.....	.....	3000	50000	60000	.....	.....	.....	.....	.....	110000
Lebanon	3900	3900	3900	.....	.....	.....	.....	11700	135000	130000	135000	.....	.....	.....	.....	400000
Leecliffe Hall (Can.)	1450	1350	.....	.....	.....	.....	.....	2800	75000	69000	.....	.....	.....	.....	.....	144000
Lehigh	3500	3900	3900	3200	.....	.....	.....	14500	120000	130000	130000	110000	.....	.....	.....	490000
Lemoyne (Can.)	2300	2500	1900	2400	1900	2400	2600	16000	80000	90000	65000	65000	65000	80000	95000	540000
Leslie, Alexander (Can.)	1800	2200	1800	.....	.....	.....	.....	5800	55800	84000	48500	.....	.....	.....	.....	188300
Lethbridge (Can.)	.....	.....	.....	.....	.....	.....	.....	.....	29000	20000	23000	.....	.....	.....	.....	72000
Leetsdale	1100	1600	2300	1200	.....	.....	.....	6200	30000	58000	75000	45000	.....	.....	.....	208000
Lindabury, Richard V.	4700	4300	4600	.....	.....	.....	.....	13600	.....	.....	.....	.....	.....	.....	.....	.....
Lukesfjell (Norw.)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lynch, Thomas	4600	3900	4500	.....	.....	.....	.....	13000	.....	.....	.....	.....	.....	.....	.....	.....
Machaughton, James	3300	3200	2800	3600	.....	.....	.....	12900	110000	110000	110000	110000	.....	.....	.....	440000
MacPherson, N. B. (Can.)	1400	1600	.....	.....	.....	.....	.....	3000	41500	48500	.....	.....	.....	.....	.....	90000
McAlpine, James E.	2300	2000	2000	2300	.....	.....	.....	8600	75000	70000	70000	75000	.....	.....	.....	290000
McCarthy, T. J.	2900	2600	2500	.....	.....	.....	.....	8000	100000	87000	87000	.....	.....	.....	.....	274000
McCullough, C. H., Jr.	3300	3900	3300	.....	.....	.....	.....	10500	120000	135000	125000	.....	.....	.....	.....	380000
McFarland, O. S.	1900	2400	1800	.....	.....	.....	.....	6100	64000	90000	65000	.....	.....	.....	.....	219000
McGean, W. H.	3200	3300	3000	.....	.....	.....	.....	9500	112000	110000	118000	.....	.....	.....	.....	340000
McGonagle, W. A.	4900	4100	4700	.....	.....	.....	.....	13700	.....	.....	.....	.....	.....	.....	.....	.....
McKellar, John O. (Can.)	1500	1400	.....	.....	.....	.....	.....	2900	50000	64000	.....	.....	.....	.....	.....	114000
McKinney, Price	2000	2000	2000	2000	.....	.....	.....	8000	72000	66000	66000	71000	.....	.....	.....	275000
McLaughlin, Wm.	3000	3500	3500	3000	.....	.....	.....	13000	115000	110000	115000	110000	.....	.....	.....	450000
McWatters, J. N. (Can.)	1500	1500	.....	.....	.....	.....	.....	3000	50000	64000	.....	.....	.....	.....	.....	114000
Makesfjell (Norw.)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Maliotoa	8300	.....	.....	.....	.....	.....	.....	8300	.....	.....	.....	.....	.....	.....	.....	.....
Mancox (Can.)	750	600	750	.....	.....	.....	.....	2100	24000	20000	25000	.....	.....	.....	.....	69000
Manion, Paul D. (Can.)	1500	1400	.....	.....	.....	.....	.....	2900	50000	60000	.....	.....	.....	.....	.....	114000
Mantadoc (Can.)	1800	1800	1800	1800	.....	.....	.....	7200	60000	65000	65000	60000	.....	.....	.....	250000
Manuel, John S.	3000	3000	3000	.....	.....	.....	.....	9000	101000	113000	101000	.....	.....	.....	.....	315000
Manzutti (Can.)	750	600	750	.....	.....	.....	.....	21000	24000	20000	25000	.....	.....	.....	.....	69000
Mapleheath (Can.)	650	550	950	650	.....	.....	.....	2800	21000	18000	42000	21000	.....	.....	.....	102000
Martian (Can.)	5600	.....	.....	.....	.....	.....	.....	5600	190000	.....	.....	.....	.....	.....	.....	190000
Marquette	2000	1800	1800	1800	.....	.....	.....	7400	70000	65000	65000	70000	.....	.....	.....	270000
Maryland	4300	3700	4000	.....	.....	.....	.....	12000	130000	120000	130000	.....	.....	.....	.....	380000
Massey, F. V. (Can.)	1100	900	1000	.....	.....	.....	.....	3000	42000	32000	38000	.....	.....	.....	.....	112000
Mataafa	5300	2400	.....	.....	.....	.....	.....	7700	.....	.....	.....	.....	.....	.....	.....	.....
Mather, Samuel	4400	4200	4400	.....	.....	.....	.....	13000	150000	150000	150000	.....	.....	.....	.....	450000
Mather, Wm. G.	3700	3000	3300	3700	.....	.....	.....	13700	110000	119000	111000	120000	.....	.....	.....	460000
Mathewston (Can.)	2400	2000	1700	1700	1900	2300	.....	12000	66000	66000	66000	66000	66000	66000	.....	396000
Mathiott, E. G.	1100	1900	1900	1300	.....	.....	.....	6200	38000	70000	70000	47000	.....	.....	.....	225000
Maunaloa II (Can.)	3700	3300	.....	.....	.....	.....	.....	7000	127000	113000	.....	.....	.....	.....	.....	240000
Mauthe, J. L.	4800	4300	4300	4600	.....	.....	.....	18000	145000	142000	142000	144000	.....	.....	.....	575000
Mead, Geo. W.	2200	1800	2200	.....	.....	.....	.....	6200	70000	77000	78000	.....	.....	.....	.....	225000
Meadcliffe Hall (Can.)	1400	1400	.....	.....	.....	.....	.....	2800	49000	45000	.....	.....	.....	.....	.....	94000
Meaford (Can.)	1450	1350	.....	.....	.....	.....	.....	2800	47000	52000	.....	.....	.....	.....	.....	99000
Meyers, Carl W.	6500	.....	.....	.....	.....	.....	.....	6500	215000	.....	.....	.....	.....	.....	.....	215000
Michigan	2750	2750	2750	2750	.....	.....	.....	11000	90000	100000	100000	90000	.....	.....	.....	380000
Michigan (M. S.)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Midland Prince (Can.)	1200	2200	2200	1300	.....	.....	.....	6900	.....	.....	.....	.....	.....	.....	.....	.....
Miller, Governor	4800	4000	4700	.....	.....	.....	.....	13500	.....	.....	.....	.....	.....	.....	.....	.....
Miller, J. Clare	3000	2900	2900	2900	.....	.....	.....	11700	95000	90000	90000	95000	.....	.....	.....	370000
Mills, D. O.	3500	3500	3500	.....	.....	.....	.....	10500	130000	120000	130000	.....	.....	.....	.....	380000
Minch, Philip	3400	3100	3100	.....	.....	.....	.....	9600	113000	107000	108000	.....	.....	.....	.....	328000
Misener, Lt. John (Can.)	1500	1500	.....	.....	.....	.....	.....	3000	50000	64000	.....	.....	.....	.....	.....	114000
Misener, Ralph S.	1500	1500	.....	.....	.....	.....	.....	3000	50000	64000	.....	.....	.....	.....	.....	114000
Misener, Scott (Can.)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mitchell, Samuel	.....	.....	Cement Carrier	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	634000



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Store"

RADIOS, TELEVISION & SPORTING GOODS  
MONROE, MICHIGAN

## LAKE VESSELS COMPARTMENT CARRYING CAPACITIES FOR COAL AND GRAIN

221

VESSEL	COAL							GRAIN								
	1	2	3	4	5	6	7	Total	1	2	3	4	5	6	7	Total
Mohawk Deer (Can.)	2000	2000	2000	2000				8000	68000	68000	68000					272000
Moloney, D. A.	1800	1200	1200	1600	1800			7600	56000	40000	40000	62000	56000			254000
Mondoc (Can.)	1400	1600						3000	50000	60000						110000
Moody, R. E.	1400	1025	1025	1750				5200								
Morgan, J. Pierpont	4400	4000	4300					12700								
Morgan, J. P., Jr.	4550	3800	4450					12800								
Morrell, Daniel T.	4200	3800	4000					12000	146000	139000	140000					425000
Morrow, Jos. S.	1800	2000	2000	2100				7900	64000	66000	68000	72000				270000
Morse, Jay C.	3300	3600	3600					10500	130000	120000	130000					380000
Morse, Samuel F. B.	8200							8200								
Mudge, Edmund W.	2800	2100	2100	3000				10000	84000	92000	94000	84000				354000
Munising	1800	1700	1700	1100				6300	65000	65000	65000	40000				235000
Munson, John G.	3270	2960	2770	2730	2750	3020		17500								
Murphy, E. P. (Can.)	1500	1400						2900	50000	64000						114000
Murphy, Simon J.	1700	1800	1900	1600				7000	56000	62000	66000	53000				237000
Negaunee	1800	1700	1700	1100				6300	65000	62000	61000	40000				228000
Nettleton, A. E.	2800	2500	2200	2500				10000	95000	95000	90000	95000				375000
New York News (Can.)	2200	1800						4000	75000	60000						135000
Newbrundoc	1500	1600						3100	50000	65000						115000
Nisbet, Watkins F.	1200	1400						2600	40300	43700						84000
Norco (Can.)	1100	900						2000	40000	32000						72000
Norfolk	700	1200	500					2400	23000	42000	16000					81000
Northcliffe Hall (Can.)	1450	1350						2800	75000	69000						144000
Norton, David Z.	2100	2600	2600	2400				9700	72000	93000	93000	72000				330000
Norway	2500	2500	2800	2500				10300	92000	92000	100000	92000				376000
Norwood Park (Can.)																
Odanah	1800	1900	1900	1900				7500	60000	65000	65000	70000				260000
Olcott, Wm. J.	4600	4050	4450					13100								
Oglebay, Crispin	1250	1750	2000	2000	1700	1300		10000								
Olds, Irving S.	6300	5400	6300					18000	210000	180000	210000					600000
Ontadoc (Can.)	1800	1800	1800	1800				7200	60000	65000	65000	60000				250000
Ornefjell (Norw.)																
Osler (Can.)	1600	1900	1900	1900	2200			9500	60000	65000	65000	65000	65000			320000
Outarde (Can.)	1300	1600	900					3800	45000	55000	30000					130000
Paine, Wm. A.	2500	1900	2200	2400				9000	80000	80000	80000	80000				320000
Paisley, Robert J.	1600	1800	1800	1400				6600								
Palmer, Wm. P.	4600	4050	4450					13100								
Paper Carrier																
Parghy, Eugene W.	4900	4100	4700					13700								
Pathfinder	3500	4000	3500					11000	130000	130000	125000					385000
Paul, Chas. A.	2500	2600	2500	2600				10200	90000	92000	90000	92000				364000
Penetang (Can.)	1450	1550						3000	47000	52000						99000
Penobscot	5200							5200	177000							177000
Perkins, Geo. W.	5950	5750						11500								
Perseus	1900	2200	2200	1900				8200	67000	79000	79000	65000				290000
Petroheat (M. V.)																
Phipps, Henry	4400	4000	4300					12700								
Pickands, Col. James	4400	4200	4400					13000	150000	150000	150000					450000
Pillsbury, John S. (Can.)	1200	1400						2600	40700	46300						87000
Pinebay (Can.)	650	500	450					1600	21700	16700	15000					53400
Pine Ridge																
Pioneer	2800	2200	2200	3000				10200	90000	85000	85000	90000				350000
Poe, Gen. Orlando M.	8200							8200								
Pollock, W. G.	1800	1900	1900	1900				7500	60000	70000	70000	75000				275000
Pomeroy, R. W. (Can.)	1200	1400						2600	37800	44200						82000
Ponoka (Can.)	2000							2000	57000							57000
Pontiac	3700	3000	3000	3500				13200	107000	114000	112000	112000				445000
Pope, E. C.	3500							3500								

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## LAKE VESSELS COMPARTMENT CARRYING CAPACITIES FOR COAL AND GRAIN

223

	COAL							GRAIN								
VESSEL	1	2	3	4	5	6	7	Total	1	2	3	4	5	6	7	Total
Post, G. G.	1700	2700	1600					6000	60000	87000	60000					207000
Prescodoc (Can.)	1350	800	950					3100	50000	30000	35000					115000
Prescott (Can.)	2600	2100	2100	2000				8800	80000	85000	85000	65000				315000
Presque Isle	1800	1600	1600	1800				6800	62000	58000	58000	62000				240000
Princeton	1600	2100	2000	1300				7000	55000	65000	65000	35000				220000
Prindoc (Can.)	1800	2700	2300					6800	58000	86000	77000					221000
Purnell, Frank	3500	3900	3900	3200				14500	120000	130000	130000	110000				490000
Quedoc (Can.)	2500	2500						5000	75500	75500						151000
Queenston (Can.)	1400	1600						3000	50000	60000						110000
Rammacher, J. J. (Can.)	1200	1400						2600	41000	43500						84500
Rand, Geo. F.	2900	1725	1725	1725	1625			9700								
Randall, Clarence	3500	3900	3900	3200				14500	120000	130000	130000	110000				490000
Ranney, Rufus P.	2000	1900	1900	1900				7700	66000	68000	65000	68000				267000
Ream, Norman B.	4400	4000	4300					12700								
Red Cloud (Can.) (M.V.)	850	850	850	850				3400	26000	32000	32000	27000				117000
Redfern (Can.)	850	850	850	850				3400	26000	32000	32000	27000				117000
Redriver (Can.)	850	850	850	850				3400	26000	32000	32000	27000				117000
Redwood (Can.)	850	850	850	850				3400	26000	32000	32000	27000				117000
Reiss Brothers	3000	3300	3400	3300				13000	90000	120000	120000	100000				430000
Reiss, Clemens A.	1800	1100	2300	2300				7500	56000	38000	78000	78000				250000
Reiss, J. L.	1800	600	1150	1700	1250	1250		7750								
Reiss, John P.	2600	2600	2400	2800				10400	79000	93000	85000	93000				350000
Reiss, Otto M.	1800	2000	2000	2100				7900	56000	69000	70000	70000				265000
Reiss, Peter	2600	2700	2400	2700				10400								
Reiss, Richard J.	3500	3900	3900	3200				14500	120000	130000	130000	110000				490000
Reiss, Wm. A.	3300	3800	3800	3100				14000	120000	120000	120000	120000				480000
Renvoyle (Can.)									33000	38000	45000	Between	Decks	60000		176000
Reynolds, W. B. (Can.)	1400	1600						3000	50000	60000						110000
Richards, John B. (Can.)	1400	1600						3000	41200	48800						90000
Richardson, W. C.	2000	1900	1900	2000				7800	72000	66000	66000	71000				275000
Roberts, Percival, Jr.	4600	4050	4450					13100								
Robinson, C. S.	3100	4000	3400					10500	110000	130000	120000					360000
Robinson, T. W.	2700	1800	1700	3200	1600			11000								
Rockcliffe, Hall (Can.)	1400	1600						3000	50000	60000						110000
Rogers, Henry H.	4400	4000	4300					12700								
Roseleaf (Can.)																
Royalton (Can.)	2000	2000	2000	2000	2000	2000		12000	66000	66000	66000	66000	66000	66000		396000
Rutenfiell (Norw.)																
Sandland (Can.)																
Saracen (Can.)	1500	1500						3000	48000	48000						96000
Saskadoc (Can.)	1800	1800	1800	1800				7200	60000	65000	65000	60000				250000
Saskatoon (Can.)									29000	20000	23000					72000
Saunders, Edw. N., Jr.	2900	2400	2400	2800				10500	98000	85000	85000	97000				365000
Schiller, Wm. B.	4550	3800	4450					12800								
Schneider, Cletus	1200	1700	1700	1200				5800	43000	63000	64000	40000				210000
Schneider, Pam	1200	1700	1700	1200				5800	47000	64000	64000	40000				215000
Schoellkopf, J. F., Jr.	2900	1350	1350	1350	3050			10000								
Schoonmaker, Col. J. M.	5100	4000	4900					14000	171000	135000	164000					470000
Schwab, Chas. M.	4400	4200	4400					13000	150000	150000	150000					450000
Scotiadoc (Can.)	1700	1900	1800	1900				7300	60000	63000	63000	67000				253000
Secord, Capt. C. O. (Can.)	1700	2200	2100	2200	1800			10000	58000	65000	69000	75000	63000			330000
Selkirk (Can.)									29000	20000	23000					72000
Sellwood, Jos.	3100	4000	3400					10500	110000	130000	120000					360000
Sensibar, J. R.	1200	1550	2000	1750	1400	1100		9000								
Shasta	1800	1700	1700	1200				6400	65000	62000	62000	40000				229000
Shaugnessy, Sir T. (Can.)	1650	1650	1350	1650	1650	1650		9600	55000	55000	45000	55000	55000	55000	55000	320000
Shaw, Howard L. (Can.)	1700	1800	1900	1600				7000	56000	62000	66000	53000				237000
Sheadle, J. H.	2700	2900	2900	2900				11400	95000	85000	100000	105000				385000



# BOILER TUBES

Seamless Steel Marine Boiler Tubes and Stay Tubes are stocked in standard and extra gauges. Tubes are tested to American Bureau of Shipping and Lloyd's requirements. **Overnight delivery can be made to the port cities.**

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**UPSET STAY TUBES**—Can be formed and threaded for Scotch marine boilers on short notice in our own shops.

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## LAKE VESSELS COMPARTMENT CARRYING CAPACITIES FOR COAL AND GRAIN

225

	COAL							GRAIN								
VESSEL	1	2	3	4	5	6	7	Total	1	2	3	4	5	6	7	Total
Shelter Bay (Can.)	1400	1200						2600	43000	40000						83000
Shenango	3600	3000	3200	3100				12900	122000	100000	106000	102000				430000
Sherwin, John	2700	2600	2600	2600				10500	90000	85000	85000	90000				350000
Shiras, MacGilvary	1700	1700	1700	1700				6800	60000	60000	60000	60000				240000
Sierra	1000	1600	1600	1000	800			6000								
Simcoe (Can.)	850	1350						2200	42000	39000						81000
Sinaloa	1200	1650	1600	1550				6000								
Sloan, Geo. A.	3500	3900	3900	3200				14500	130000	130000	130000	110000				490000
Smith, Edmund P.	2250	2000	2650	2800				9700	76000	67500	90500	96000				330000
Smith, Hurlbut, W.	1800	1800	1600	1800				7000	61000	63000	61000	65000				250000
Smith, Lyman C.	2800	2500	2200	2500				10000	95000	95000	90000	95000				375000
Snyder, Wm. P., Jr.	5100	4000	4900					14000	171000	135000	164000					470000
Sonora	1800	2300	1800					5900	50000	70000	50000					170000
Soodoc (Can.)	1800	1800	1800	1800				7200	60000	65000	65000	60000				250000
Soreldoc (Can.)	1500	1600						3100	50000	65000						115000
Sprucebranch (Can.)																
Spruce Bay (Can.)	650	500	450					1600	21000	16000	15000					52000
Stackhouse, Powell	3500	3200	3800					10500	120000	108000	125000					353000
Stadacona (Can.)	2400	2050	1950	1950	1950	1900		12200	70000	75000	65000	76000	65000	79000		430000
Standard Portland Cement	2700	3100	2900					8700	92000	105000	100000					297000
Stanley, Robt. C.	3500	3900	3900	3200				14500	120000	130000	130000	110000				490000
Stanton, John	3500	3200	3300					10000	115000	110000	125000					350000
Starbuck (Can.)								2500	27000	20000	23000					100000
Starmount (Can.)	1050	900	1050					3000	34000	30000	35000					99000
Stl. Elect. (M. V.) ( Can.)	1600	1400														
Steel King	1400	1700	1700					3000								
Steelton	3500	3900	3900	3200				4800	48000	58000	57000					163000
Steinbrenner, Henry	1900	1500	1500	2000				14500	120000	130000	130000	110000				490000
Stephenson, Geo.	1500	1600	1600	1500				6900	60000	61400	60400	61200				243000
Stewart, James (Can.)	1200	1400						6200	47000	50000	53000	50000				200000
Stewart, Wm. J. (Can.)								2600	42500	47500						90000
Stifel, Wm. F.	2000	1900	1900	1900				7700	72000	66000	65000	72000				275000
Stone, Amasa	3100	4000	3400					10500	115000	130000	125000					370000
Stuart, M. H.																
Sullivan Brothers	1500	1300	2500	2500				7800	60000	60000	80000	60000				260000
Sullivan, J. J.	3600	3900	3500					11000	125000	135000	120000					380000
Sultana	1800	2300	1800					5900	50000	70000	50000					170000
Sumatra	1050	1300	1600	1050				5000								
Superior (Can.)									28000	20000	7000					
Suanfjell (Norw.)																
Sweden	1800	1800	1600	1800				7000	61000	63000	61000	65000				250000
Sykes, Wilfred	6088	6601	5631					18320	221100	204000	188600					613700
Sylvania	2900	2400	2400	2900				10600	94000	82000	82000	94000				352000
Tampico																
Taplin	1700	1900	2000	2000				7600	58000	70000	70000	72000				270000
Tate, Ben E.	1500	1400	1300	1800				6000								
Taylor, B. H.	3200	2100	2100	2600				10000								
Taylor, Myron C.	4900	4100	4700					13700								
Taylor, Shirley G. (Can.)	1400	1600						3000	41200	45800						87000
Teakbay (Can.)	1500	1500						3000	47750	47750						95500
Thomas, Eugene P.	4900	4100	4700					13700								
Thompson, Carmi A.	2750	2750	2750	2750				11000	97500	97500	97500	97500				390000
Thompson, David P.	3000	2700	3000	2800				11500	103000	100000	110000	102000				415000
Thompson, Smith	1900	1800	1800	2300				7800	66000	66000	66000	82000				280000
Thorold (Can.)	1300	1100						2400	43000	40000						83000
Thunder Bay Quarries	2200	1900	1300	2400	1500			9300								
Tomlinson, G. A.	2500	2600	2400	2600				10100	83000	93000	93000	81000				350000

COMPLIMENTS OF  
**The FAIR PUBLISHING HOUSE**  
NORWALK, OHIO

## LAKE VESSELS COMPARTMENT CARRYING CAPACITIES FOR COAL AND GRAIN

227

## COAL

## GRAIN

VESSEL	1	2	3	4	5	6	7	Total	1	2	3	4	5	6	7	Total
Townsend, Edw. Y.	4700	3600	4000					13200	136000	132000	136000					404000
Trevisa (Can.)	1100	1100	700					2900	28000	24000	28000					80000
Trimble, Richard	4600	4050	4450					13100								
Troisdac (Can.)	1350	800	950					3100	50000	30000	35000					115000
United States Gypsum	1000	625	625	1800	2100	2200		8350								
Upson, Andrew S.	2200	2500	2300					7000	72000	82000	76000					230000
Upson, J. E.	2500	2700	2300	2800				10300	80000	90000	85000	95000				350000
Valley Camp (Can.)	1000	900	800					2700								
Vandoc (Can.)	1800	1800	1800	1800				7200	60000	65000	65000	60000				250000
Vardefjell (Norw.)																
Venus	5600							5600	190000							190000
Verona	2150	2100	2100	2150				8500	80000	75000	75000	80000				310000
Victorius (Can.)	1100	1600	1600	1600	1600			7500	41000	53000	60000	57000	54000			265000
Virginia																
Viscount, Bennett (Can.)	2500	2300	2300	2400				9500	80000	80000	80000	80000				320000
Voorhees, Enders M.	6300	5400	6300					18000	210000	180000	210000					600000
Wahcondah (Can.)	1200	1200						2400	26000	27000		Tween	Decks	25000		78000
Wallace, James C.	3400	4000	3400					10800	125000	130000	125000					380000
Wallace, Robt. B.	2600	2800	2600	2800				10800	97000	93000	93000	97000				380000
Walsh, James P.	1800	2500	2500	2200				9000	60000	91000	91000	83000				325000
Walters, Thomas	4600	3800	4500					12900	149000	138000	138000					425000
Warren, Wm. C. (Can.)	1400	1600						3000	42000	47500						89500
Watson, Ralph H.	4800	4000	4700					13500								
Watt, James	1800	1700	1700	1500				6700	55000	52000	57000	52000				216000
Weed, Shelton (Can.)	1400	1600						3000	41700	46000						87700
Weir, David M.	3900	3900	3900					10800	123000	139000	118000					380000
Weir, Ernest T.	3400	3100	3400	3200				13100	105000	116000	105000	116000				442000
Wells, Jos. P.	1800	1900	1900	1900				7500	60000	70000	70000	75000				275000
West, Charles C.	600	1100	1300		650	1250	1300									
Westcliffe, Hall (Can.)	1450	1350						2800	75000	69000						144000
Westmount (Can.)	2300	1900	1100	1100	1900	2300		10600	70000	70000	50000	50000	75000	70000		385000
Weston (Can.)	1400	1600						3000	50000	60000						110000
Weyburn (Can.)									29000	20000	23000					72000
White, Charles M.	5600	4700	5300					15600	186666	156650	176640					519956
White, Peter	2800	2200	2200	3000				10200	90000	85000	85000	90000				35000
White, W. F.	2800	1700	1700	3300				9500								
Widener, Peter A. B.	4400	4000	4300					12700								
Wilkinson, Frank (Can.)	1500	1500						3000	50000	64000						114000
Wilkinson, Horace S.	2800	3100	3100	3000				12000	100000	110000	110000	120000				440000
Williams, Homer D.	4900	4100	4700					13700								
Williams, John C.	2750	2750	2750	2750				11000	91250	91250	91250	91250				365000
Williamsport	2200	2000	2000					6600	69000	79000	83000					231000
Willow Bay (Can.)									21000	16000	15000					52000
Wilson, Thomas	3500	3900	3900	3200				14500	120000	130000	130000	110000				490000
Windoc (Can.)	1800	1800	1800	1800				7200	60000	65000	65000	60000				250000
Winnipeg (Can.)									29000	20000	23000					72000
Wolf, Wm. H.	2800	2200	2300	3100				10400	96000	87000	85000	107000				375000
Wolverine	1700	1500	1300	1200				5700	55000	52000	57000	51000				215000
Wolvin, Augustus B.	2400	2700	2700	3000				1080	90000	90000	90000	110000				380000
Wood, Joseph	2800	1950	2300	2950				10000	84000	92000	94000	84000				354000
Wyandotte	1200	1000	500					2750								
Yankanuck (Can.)	2200							2200								
Yates, Harry	2700	3100	2900					8700	92000	105000	100000					297000
Yosemite	1750	1150	1150	1550				5600	65000	43000	42000	65000				215000
Young, Col. E. M.	1100	700	1100	1100	1200	1100		7300								
Youngstown	4400	4600	4000					13000	150000	164000	136000					450000
Zeising, August	4700	4100	4600					13400								



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## BARGES COMPARTMENT CARRYING CAPACITIES FOR COAL AND GRAIN

229

## GRAIN

## COAL

VESSEL	1	2	3	4	5	6	7	Total	1	2	3	4	5	6	7	Total
Alfred, J. Arrow	1600 300	2100 200	2200					5900 500	50000	67000	73000					190000
Blanch, H. (Can.)	2100	2100	1900					6100	67000	67000	60000					194000
Bryn Barge (Can.)	2300	2300	2600					7200	79000	78000	93000					250000
Collingwood II (Can.)	1600	2100	2200					5900	50000	67000	73000					190000
Constitution	5500							5500								
Davie, Geo. T. (Can.)	800	300	300					1400								
Delkote (Can.)	1500	2000	1900					5400								
En-Ar-Co (Can.)	400	400	200	200				1200								
Florence, J. (Can.)	2100	2100	1700					5900	67000	67000	54000					188000
Fritz, John (Can.)	4900	4300						9200	151000	131000						282000
Glenbogie (Can.)	2000	2000	2000					6000	75000	75000	75000					225000
Hilda	3300							3300								
Hilda (Can.)	1100							1100								
Holley, Alexander (Can.)	1800	1800	1900					5500	71000	73000	72000					216000
Kenordoc (Can.)	2000	2000	2000					6000	78000	72000	78000					228000
Krupp, Alfred (Can.)	1600	2000	2000					5600	59000	66000	72000					197000
Lillian	4200							4200								
Londonderry (Can.)	300	1000	500					1800	10000	33400	16600					60000
Magna	1500	1600	1800					4900	52500	70000	73000					195500
Mala	5800							5800	206000							206000
Malda	1700	1800	1800					5300								
Maitland No. 1	3400							3400								
Malden (Can.)	200	200	200	200	200	200		1200								
Manila	2000	2000	2000	2200				8200	83000	79000	59000	59000				280000
Marquette Bessemer No. 2	4200							4200								
Marsala	8000							8000	280000							280000
Merle H. (Can.)	2100	2100	1900					6100	67000	67000	60000					194000
Mitchfibre (Can.)	4000							4000	140000							140000
No. 137 (Can.)	1400	1800	1800					5000	60000	70000	60000					190000
Normil	1550							1550								
Owendock	2100	2100	1700					5900	67000	67000	54000					188000
Portadoc (Can.)	2000	2000	1500					5500	67000	67000	50000					184000
Proctor, Dan C. (Can.)	1500							1500								
Resolute	2000	2000	2000					6000								
Roebbing, John A. (Can.)	4900	4300						9200	151000	131000						282000
Smeaton, John	8500							8500	315000							315000
Swederpe (Can.)	5700							5700								
Swederpe	2000							2000								
Transport	1900							1900								
Turret Cape (Can.)	3600							3600								
Vigilant (Can.)																
Warrenko (Can.)	300	200	150	150				800								

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## BOILERS AND ENGINES OF LAKE VESSELS

231

VESSEL	BOILERS			Horse Power	ENGINES		Year Built
	No.	Type	Size		Type	Cylinders and Stroke	
Acadian (Can.)	2	Scotch	12' 6"x10' 6"		Triple Exp.	16 - 26 - 44 x 30	1913
Adams, Cuyler	2	Scotch	13' 9"x11' 6"	1600	Triple Exp.	22½ - 36 - 60 x 42	1904
Adriatic	2	Scotch	13' 9"x11' 6"	1500	Triple Exp.	22 - 35 - 58 x 42	1907
Affleck, B. F.	3	Scotch	14' x12'	2200	Triple Exp.	24½ - 41 - 65 x 42	1927
Alabama	3	Scotch	12' 6"x11'	2000	Triple Exp.	23 - 38 - 62 x 36	1909
Algocen (Can.)	2	Scotch	14' 6"x11' 6"		Triple Exp.	23½ - 38 - 63 x 42	1909
Algonah II	1	Fire Box		450	F. & A.	18 - 37 x 36	1922
Algoming (Can.)							1930
Algonquin (Can.)	2	Scotch	13' x 9'		Triple Exp.	21 - 33 - 54 x 36	1888
Algorail (Can.)	2	Scotch	12'10"x13'		Triple Exp.	20 - 33½ - 55 x 40	1901
Algosoo (Can.)	2	Scotch	13' 2"x11' 6"		Triple Exp.	22 - 35 - 58 x 42	1901
Algosteel (Can.)	2	Scotch	13' 9"x11' 6"		Triple Exp.	22½ - 36 - 60 x 42	1908
Algoway (Can.)	2	Scotch	13' 9"x11' 6"		Triple Exp.	22 - 35 - 58 x 42	1903
Allen, Martha E.	1	Scotch	10' x11'	1950	6-cyl. Diesel		1928
Allison (Can.)	2	Marine	10' 3"x11'		Triple Exp.	15 - 25 - 40 x 33	1927
Alpena	2	Scotch	13' 2"x11' 6"	1400	Quad. Exp.	17½ - 25½ - 37 - 54 x 36	1909
Altadoc (Can.)	2	Scotch	16' x11' 6"		Triple Exp.	25 - 40 - 68 x 42	1914
Amazon	2	Scotch	12' x12'	1250	Triple Exp.	19 - 30 - 50 x 40	1908
American	2	Scotch	12' x11' 3"	850	Triple Exp.	17 - 25 - 43 x 30	1921
Amsterdam Socony				700			1924
Anderson, Arthur M.	2	Water Tube	Heat. Sur. Oil Fired	7000	Geared Turbine		1952
Andrews, Mathew	3	Scotch	14' x11'	2400	Triple Exp.	25½ - 41 - 67 x 42	1922
Angeline	2	Scotch	13' 2"x11' 7"	1249	Triple Exp.	15½ - 26 - 44 x 26	1899
Ann Arbor 3	2	Scotch	13' x11' 6"	1200	Triple Exp.	22½ - 36 - 60 x 42	1922
Ann Arbor 5	4	Scotch	13' 6"x12'	3000	2 Triple Exp.	21 - 33 - 52 x 40	1910
Ann Arbor 6	4	Scotch	13' 2"x11' 6"	3000	2 Triple Exp.	19½ - 31 - 52 x 36	1917
Ann Arbor 7	4	Scotch	14' 6"x11'	2700	2 Triple Exp.	20½ - 34 - 56 x 36	1924
Arcturus	2	Scotch	13' 9"x11' 6"	1600	Triple Exp.	22½ - 36 - 60 x 42	1906
Ariel	1	Scotch	11' x11'		F. & A.	20 x 24	1902
Armstrong, Frank	2	Water Tube	Heat. Sur. 7060 sq. ft.	2500	Triple Exp.	25 - 41 - 68 x 42	1943
Ashcroft (Can.)	3	Scotch	15' 3"x11' 6"		Triple Exp.	24½ - 41½ - 72 x 48	1925
Ashley, J. S.	2	Water Tube	H. S. O. F. 3370 Sq. Ft. Each	2500	Skinner UnafLOW	5 Cyl.	1952
Ashtabula	4	Scotch	13' 2"x11' 6"	3000	2 Triple Exp.	19½ - 31 - 52 x 36	1906
Assiniboia (Can.)	4	Scotch	14'10"x11'		Quad. Exp.	23½ - 34 - 48½ - 70 x 45	1907
Augustus, A. A.	2	Scotch	14' 6"x11' 6"	1800	Triple Exp.	23½ - 38 - 63 x 42	1910
Avery, Sewell	2	Water Tube	Heat. Sur. 4673 sq. ft.	2500	Lentz Double Comp.	22½ - 50 - 22½ - 50 x 48	1943
Ayers, J. Burton	2	Water Tube	Heat. Sur. 4673 sq. ft.	2500	Lentz Double Comp.	22½ - 50 - 22½ - 50 x 48	1943
Badger	4	Foster Wheeler	Type "D"	8000	2 Skinner Uniflow	5 Cyl.	1952
Baker, George F.	2	Water Tube	Heat. Sur. 4794 sq. ft.	1800	Triple Exp.	24 - 39 - 65 x 42	1941
Ball Brothers	2	Scotch	13' 9"x11' 6"	1600	Triple Exp.	22½ - 36 - 60 x 42	1905



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## BOILERS AND ENGINES OF LAKE VESSELS

233

VESSEL	BOILERS			Horse Power	ENGINES		Year
	No.	Type	Size		Type	Cylinders and Stroke	
Barnes, Andrew M. ....				360			1921
Barnes, Julius H. ....				900			1940
Barnes, Richard J. ....				360			1921
Barrie (Can.) .....	2	Scotch.....	12' 6"x10'10"		Triple Exp. ....	15½ - 26 - 44 x 26	1925
Battleford (Can.) .....	2	Scotch.....	10' 6"x13' 3"		Triple Exp. ....	18 - 30 - 49 x 36	1925
Bayanna (Can.) .....	1	Scotch.....	12' 6"x12'		Triple Exp. ....	17 - 27½ - 46 - 36	1896
Bayfax (Can.) .....	1	Scotch.....	12' x12' 6"		F. & A. ....	17½ - 38½ x 30	1912
Bayshell, M. V. (Can.) .....				600	2-6 Cly. Oil .....	12½ x 6	1930
Bay State .....	2	Scotch .....	12' 6"x12'		F. & A. Comp. ....	23 - 50 x 48	1901
Bayton (Can.) .....	2	Scotch.....	13' 2"x11' 6"		Triple Exp. ....	22 - 35 - 58 x 40	1904
Bay View .....							1891
Beaumont Parks .....	2	Scotch .....	15' 4"x11' 6"	1760	Triple Exp. ....	23½ - 38 - 63 x 42	1912
Beaverton (Can.) .....	2	Scotch .....	12' x11'		Triple Exp. ....	17 - 28 - 46 x 33	1908
Beloeil (Can.) .....							1895
Belleville (Can.) .....							1873
Bennett, Viscount (Can.) .....	2	Scotch.....	14' 6"x11' 6"		Triple Exp. ....	22½ - 36 - 60 x 42	1908
Berwind, Edw. J. ....	3	Scotch .....	14' x11' 2"	2300	Triple Exp. ....	25½ - 41½ - 67 x 42	1924
Bethlehem .....	2	Water Tube .....	Heat Sur. 6255 sq. ft.	3500	Skinner Unaflow .....	4 Cyl. 28 x 36	1917
Bienville (Can.) .....							1925
Billings, Frank .....	2	Scotch .....	13' 9"x12'	1550	Triple Exp. ....	22½ - 36 - 60 x 42	1910
Birchton (Can.) .....	2	Scotch .....	12' x11'		Triple Exp. ....	15 - 26 - 42 x 30	1924
Block, E. J. ....				2000	2 Diesel Electric .....		1946
Block, Joseph .....	2	Scotch.....	14' 4"x11' 6"	1850	Triple Exp. ....	24 - 39 - 65 x 42	1907
Block, L. E. ....	3	Scotch .....	14' 6"x11'	2650	Triple Exp. ....	25½ - 41 - 67 x 42	1927
Block, Phillip D. ....	3	Scotch .....	13' 6"x11'	2250	Triple Exp. ....	24½ - 41 - 65 x 42	1925
Bluebell (Can.) .....	1	Clyde.....	10' 6"x11'		Inclined Comp. ....	17 - 34 x 48	1906
Blue Comet .....				600			1923
Blue Cross (Can.) .....					Diesel .....		1933
Blue River (Can.) .....					Diesel .....		1933
Boardman, John W. ....	2	Scotch .....	14' x11'	1500	Triple Exp. ....	21 - 35 - 59 x 42	1923
Boeckling, G. A. ....	1	Scotch .....	12' x12'	600	Inclined Comp. ....	25½ - 44½ x 72	1909
Boland, John J. ....	2	Scotch .....	13' 9"x12'	1500	Triple Exp. ....	22½ - 36 - 60 x 42	1907
Boston Socony .....				700			1924
Bradley, Carl D. ....	2	Water Tube .....		4800	Turbine .....		1927
Brampton (Can.) .....	2	Marine .....	10' 3"x11'		Triple Exp. ....	15 - 25 - 40 x 33	1927
Brazil .....	2	Scotch .....	11' 4"x13' 9"		Triple Exp. ....	19½ - 32 - 52 x 45	1929
Bricoldoc (Can.) .....	2	Water Tube .....	12' x10'		Triple Exp. ....	17 - 31 - 55 x 40	1902
Britamette (Can.) .....	2				Oil Eng., 5 Cyl. ....	11½ x 13½	1931
Britamlube (Can.) .....	2	Scotch .....			Triple Exp. ....	17 - 28 - 46 x 36	1932
Britamoco (Can.) .....	2	Scotch .....			Triple Exp. ....	17 - 28 - 46 x 36	1932
Britamoil (Can.) .....	1	Scotch.....			Triple Exp. ....	17 - 28 - 46 x 36	1931

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## BOILERS AND ENGINES OF LAKE VESSELS

235

VESSEL	BOILERS			Horse Power	ENGINES		Year Built
	No.	Type	Size		Type	Cylinders and Stroke	
Britamolene (Can.)	1	Scotch			Triple Exp.	17 - 28 - 46 x 36	1931
Britannia	2	Scotch	13' 2"x12'		Triple Exp.	15 - 25 - 40 x 33	1929
Brown Beaver (Can.)	2	Scotch	10' 6"x10'10"		Triple Exp.	20 - 32 - 50 x 36	1906
Brown, Fayette	2	Scotch	14' 6"x11' 6"	1800	Triple Exp.	23½ - 38 - 63 x 42	1910
Brown, Frank H. (Can.)	2	Scotch	12' 5"x10' 6"		Triple Exp.	16 - 27 - 44 x 33	1924
Brown, Harvey H.	2	Scotch	14' 6"x13'	2000	Triple Exp.	24 - 38 - 65 x 42	1943
Brown, J. J. H.	2	Scotch	13' 9"x11' 6"	1500	Triple Exp.	22 - 35 - 58 x 40	1908
Browning, L. D.	2	Scotch	14' 6"x11' 6"	1700	Triple Exp.	22 - 39 - 63 x 42	1908
Browning, Troy H.	2	Water Tube	Heat. Sur. 12,488	9900	Geared Turbine		1946
Buskeye	2	Scotch	13' 2"x11' 7"	1500	Triple Exp.	22 - 35 - 58 x 42	1901
Buckeye State				720	2-Cycle Diesel		1930
Budd, Ralph (Can.)	2	Scotch	14' 9"x12'		Quad. Exp.	20¾ - 30 - 43½ - 63 x 42	1905
Buffington, E. J.	2	Water Tube	Heat Sur. 4794 sq. ft.	1800	Triple Exp.	24 - 39 - 65 x 42	1945
Bulkarrier (Can.)	2	Scotch	13' x11'		Triple Exp.	18 - 30 - 50 x 36	1929
Bunsen, R. W. E.	2	Scotch	15' 4"x11'	1600	Quad. Exp.	20½ - 30 - 43½ - 63 x 42	1916
Burke, Jos. P. (Can.)	2	Scotch	10' x10'10"		Triple Exp.	15 - 25 - 40 x 33	1929
Burlington (Can.)	2	Scotch	14' x11' 6"	1300	Triple Exp.	23 - 38 - 63 x 40	1917
Burlington Socony				700			1924
Byers, A. M.	2	Scotch	14' 6"x11' 6"	1760	Triple Exp.	23½ - 38 - 63 x 42	1910
Cadillac (Pass.)	2	Scotch	14' x10' 6"		Comp.	22 - 32 - 32 x 36	1928
Cadillac	2	Water Tube	Heat. Sur. 7060 sq. ft.	2500	Triple Exp.	24 - 41 - 68 x 42	1943
Cadwell, C. W. (Can.)	1	Scotch	14' 6"x14'		F. & A.	16 - 25 x 26	1893
Calcite	3	Scotch	11' 6"x11' 6"	2000	Quad. Exp.	19 - 27½ - 40 - 58 x 42	1912
Calgarian (Can.)	2	Scotch	14' 6"x11'		Triple Exp.	19½ - 33 - 54 x 36	1905
Callaway, Cason J.	2	Water Tube	Heat. Sur. Oil Fired	7000	Geared Turbine		1952
Calumet	2	Scotch	13' 9"x11' 6"	1500	Triple Exp.	22 - 35 - 58 x 42	1907
Cambria	2	Scotch	14' 6"x11' 6"	1800	Triple Exp.	23½ - 38 - 63 x 42	1910
Campbell, J. A.	2	Scotch	15' 6"x11' 6"	1800	Triple Exp.	23 - 37 - 63 x 42	1913
Canadian (Can.)	2	Scotch	13' x10'		Triple Exp.	19 - 32 - 52 x 36	1907
Canadiana	2	Scotch	13' 2"x11' 6"	1100	Triple Exp.	20 - 32 - 50 x 36	1910
Canadoc (Can.)	3	Scotch	12' 6"x12'		Triple Exp.	23 - 37½ - 63 x 42	1899
Canopus	2	Scotch	13' 2"x11' 6"	1500	Triple Exp.	22 - 36 - 60 x 40	1905
Carl, George M. (Can.)	2	Scotch	10' 3"x11'		Triple Exp.	18½ - 25 - 40 x 33	1928
Caribou	1	Scotch	12' x12'		F. & A.	17 - 34 x 26	1904
Carport				1280	Fairbanks Morse		1950
Carrol, Weston M.	1	Fire Box	11' x12'		F. & A.	22 - 44 x 30	1901
Carrollton	1	Scotch	14' 6"x11' 6"	850	Triple Exp.	17 - 27½ - 46 x 36	1904
Cartierdoc (Can.)	2	Scotch	10' 3"x11'		Triple Exp.	15 - 25 - 40 x 33	1928
Casco (Can.)	2	Scotch	12' x11'		Triple Exp.	17 - 28 - 46 x 33	1927
Caulkins, Ralph S.	2	Scotch	14' 2"x11'	1400	Triple Exp.	22 - 35 - 58 x 40	1925



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## BOILERS AND ENGINES OF LAKE VESSELS

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VESSEL	BOILERS			Horse Power	ENGINES		Year Built
	No.	Type	Size		Type	Cylinders and Stroke	
Cayuga (Can.)	7	Scotch	11' 6"x12'		Quad. Exp.	17½ - 25 - 36 - 52 x 30	1906
Cedarbranch (Can.)	2	Scotch	11' x12'		Triple Exp.	15 - 26 - 42 x 30	1924
Cedarton( Can.)	2	Scotch	12' x11'		Triple Exp.	15¼ - 26 - 42 x 30	1924
Cement Karrier (Can.)					2 Diesel Electric		1930
Chacornac	2	Scotch	13' 2"x12'	1250	Triple Exp.	22 - 35 - 58 x 40	1915
Challenger				200	Kahlenberg	4 Cyl. 12½ x 14	1947
Champlain	2	Water Tube	Heat. Sur. 4673 sq. ft.	2500	Lentz Double Comp.	22½ - 50 - 22½ - 50 x 48	1943
Chicago Tribune (Can.)					Diesel	18½ x 32½	1930
Chisholm, Alex D.	2	Water Tube	Heat. Sur. 4260 Sq. Ft.	3500	Skinner Uniflow	28 x 30	1950
Chief Wawatam	6	Scotch	13' 6"x12'	4500	2 Triple Exp.	21 - 33 - 52 x 40	1911
Cite de Leis (Can.)							1930
Cite' de Quebec (Can.)							1930
Cite 'de Trois Rivières							1910
City of Cheboygan	2	Scotch	12'10"x13'		2 Triple Exp.	14 - 22½ - 38 x 32	1906
City of Cleveland	8	Scotch	13' 9"x11' 6"	6000	Inclined Comp.	54 - 82 - 82 x 96	1907
City of Detroit	6	Scotch		9000	Inclined Comp.	62 - 92 - 92 x 102	1911
City of Flint 32	4	Water Tube		7200	2-2300 V-118 RPM		
					Motors		1929
City of Grand Rapids	6	Scotch	12' 6"x11' 6"	4000	Triple Exp.	26 - 42 - 51 x 42	1912
City of Hamilton (Can.)	2	Scotch	13' 6"x11'		Triple Exp.	18 - 30 - 50 x 36	1927
City of Kingston (Can.)	2	Scotch	13' 6"x11'		Triple Exp.	18 - 30 - 50 x 36	1926
City of Midland 41	4	Foster Wheeler	Type "D"	6000	Skinner Marine Uniflow	5 Cyl. 25 x 30	1941
City of Milwaukee	4	Scotch	14' 6"x12'	2700	Triple Exp.	20½ - 34 - 56 x 36	1931
City of Montreal (Can.)	2	Scotch	13' 6"x11'		Triple Exp.	18 - 30 - 50 x 36	1927
City of Munising	4	Scotch	13' 9"x12'	2300	2 Triple Exp.	19 - 31 - 52 x 36	1903
City of Petoskey	4	Scotch	13' 8"x12'	2300	2 Triple Exp.	19 - 31 - 52½ x 36	1901
City of Saginaw 31	4	Water Tube		7200	2-2300 V-118 RPM		
					Motors		1929
City of Toronto (Can.)	2	Scotch	13' 6"x11'		Triple Exp.	18 - 30 - 50 x 36	1926
City of Windsor (Can.)	2	Scotch	10'10"x13' 3"		Triple Exp.	18 - 30 - 50 x 36	1929
Clarke, E. A. S.	2	Water Tube	11' 6"x12' 2"	2000	Quad. Exp.	18½ - 28½ - 43½ - 66 x 42	1907
Clarke, Philip R.	2	Water Tube	Heat. Sur. Oil Fired	7000	Geared Turbine		1952
Clayton (Can.)	2	Scotch	10' 3"x11'		Triple Exp.	15 - 25 - 40 x 33	1929
Cleets, Geo. S. (Can.)	1	Scotch	15' x11'	775	Triple Exp.	16 - 24 - 41 x 36	1912
Clement, N. P. (Can.)	2	Scotch	12' x11'		Triple Exp.	16 - 27 - 44 x 33	1923
Clemson, D. M.	3	Scotch	13' 6"x11'	2200	Triple Exp.	24½ - 42 - 65 x 42	1916
Cleveland (M. V.)				800	Twin Diesel		1923
Cliffs, Victory	2	Water Tube	Heat Sur. 5722 sq. ft.	8500	Steam Turbine		1945
Clyde, Wm. G.	3	Scotch	14' x12'	2200	Triple Exp.	24½ - 41 - 65 x 42	1929
Clymer, Irvin L.	2	Water Tube		21	Triple Exp.	25½ - 41 - 67 x 42	1943
Coalfax (Can.)	2	Scotch	10' 6"x12' 6"		Triple Exp.	16 - 27 - 44 x 33	1927

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VESSEL	BOILERS			Horse Power	ENGINES			Year Built
	No.	Type	Size		Type	Cylinders and Stroke		
Coalhaven (Can.)	2	Scotch	13' 6"x11'	360	Triple Exp.	18 - 30 - 50 x 36	1928	
Coastal Carrier (Can.)								1921
Coastal Creek (Can.)								1927
Colbert (Can.)								1925
Cole, Thomas F.	2	Water Tube	Heat Sur. 4908 sq. ft.	1800	Triple Exp.	24 - 38 - 65 x 42	1938	
Collier (Can.)	2	Scotch	12' x11'	1400	Comp. Exp.	24 - 48 x 36	1924	
Collingwood (Can.)	2	Scotch	14' x12'		Triple Exp.	21 - 33½ - 57 x 42	1907	
Collins, E. C.	2	Scotch	14' x11'		Triple Exp.	22 - 35 - 58 x 40	1927	
Colonel	2	Scotch	11' 6"x11'		Triple Exp.	18 - 29 - 48 x 40	1901	
Columb (Can.)							1910	
Columbia (Can.)	1	Scotch	12' x12' 6"	1600	F. & A.	21 - 50 x 36	1889	
Columbia	2	Scotch	12' x13' 2"		Triple Exp.	21½ - 34 - 54 x 36	1902	
Comet	2	Scotch			Triple Exp.	19 - 31 - 54 x 42	1913	
Commuter					Kahlenberg	6 Cyl. 10 x 10½	1945	
Commodore Jarvis				180			1906	
Coniscliffe Hall (Can.)	2	Scotch	10' 6"x11'	1755	Triple Exp.	15 - 25 - 40 x 33	1928	
Conneaut	3	Scotch	12' x11' 6"		Quad. Exp.	19½ - 28¾ - 41 - 60 x 42	1916	
Consumers Power	2	Scotch	15' x12'		Triple Exp.	23 - 37 - 63 x 42	1916	
Conway, Carl C.	2	Scotch	14' 6"x11' 6"		Triple Exp.	23½ - 38 - 63 x 42	1907	
Corey, Wm. E.	2	Water Tube	Heat. Sur. 3490 sq. ft.	1800	Triple Exp.	24 - 39 - 65 x 42	1937	
Cornelius, Adam E.	2	Scotch	14' 11"x11' 6"	2200	Triple Exp.	24½ - 41 - 65 x 42	1927	
Cornell	2	Water Tube	Heat. Sur. 3072 sq. ft.	1600	Quad. Exp.	16 - 26¾ - 41 - 63 x 42	1927	
Coulby, Harry	3	Water Tube		2800	Triple Exp.	25½ - 42 - 67 x 42	1927	
Coverdale (Can.)	2	Water Tube	Heat. Sur. 13,686 sq. ft.	3600	Vickers Skinner Unafrow	27 - 30 - 27 - 27 x 31	1949	
Cowan, Wm. P.	3	Scotch	13' 6"x11'	2000	Triple Exp.	21 - 34½ - 57 x 42	1919	
Cowle, John B.	2	Scotch	15' 4"x11' 6"	1800	Triple Exp.	23½ - 38 - 63 x 42	1910	
Crapo, S. T.	3	Scotch	11' x12' 9"	1800	Triple Exp.	23½ - 38 - 63 x 42	1927	
Crawford, G. G.	2	Water Tube	Heat. Sur. 3672 sq. ft.	1800	Triple Exp.	24½ - 37½ - 65 x 42	1936	
Crawford, Wm. D.	2	Scotch	15' 4"x11' 6"	1800	Triple Exp.	23½ - 38 - 63 x 42	1914	
Crete	2	Scotch	14' 6"x11' 6"	1600	Triple Exp.	22½ - 36 - 60 x 42	1907	
Croft, Harry W.	3	Scotch	12' 6"x10' 3"	1800	Quad. Exp.	20 - 29 - 42 - 61 x 42	1908	
Dahlke, H.	1	Scotch	11' 6"x13'	2300	F. & A.	16 - 34 x 26	1907	
Dalhousie City (Can.)	2	Scotch	13' 6"x10' 6"		Triple Exp.	18 - 29 - 48 x 30	1911	
Dalton, Henry G.	3	Scotch	13' 6"x11'		Triple Exp.	24½ - 42 - 65 x 42	1916	
Damia (Can.)	2	Scotch	10' 1"x10' 9"		Triple Exp.	15 - 45 - 40 x 33	1929	
Daniels, W. H. (Can.)	2	Scotch	12' x11'	2300	Triple Exp.	16 - 27 - 44 x 33	1923	
Davidson, James	3	Scotch	13' 6"x11'		Triple Exp.	24½ - 41 - 65 x 42	1920	
Davidson, J. E.	3	Scotch	11' 6"x11' 6"		Quad. Exp.	18 - 27 - 40 - 62 x 42	1912	
Davin, John W.	2	Scotch	13' 9"x11' 6"	1650	Triple Exp.	22½ - 36 - 60 x 42	1907	
Denmark	2	Scotch	14' 6"x11' 6"	1540	Triple Exp.	22½ - 36 - 60 x 42	1909	



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## BOILERS AND ENGINES OF LAKE VESSELS

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VESSEL	BOILERS			Horse Power	ENGINES		Year Built
	No.	Type	Size		Type	Cylinders and Stroke	
Detroit	6	Scotch	13'x11' 3"-2-22	3600	F. & A., 4 Eng.	24 - 48 x 33	1904
Detroit Edison	2	Scotch	13' x11' 6"	1400	Triple Exp.	21 - 34½ - 57 x 42	1908
Detroit (M. V.)				750	Twin Diesel		1923
Diamond Alkali	3	Scotch	13' 6"x11' 3"	1900	Triple Exp.	24½ - 40 - 65 x 42	1917
Dick, Baxter (Can.)							1900
Dick, Charles (Can.)	2	Scotch	14' 7"x10' 8"		Triple Exp.	19 - 32 - 56 x 36	1922
Dickson, Wm. B.	2	Water Tube	Heat. Sur. 4794 sq. ft.	1800	Triple Exp.	24 - 38 - 65 x 42	1936
Dinkey, Alva C.	2	Water Tube	Heat. Sur. 4794 sq. ft.	1800	Triple Exp.	24 - 39 - 65 x 42	1943
Donnacona (Can.)	2	Scotch	16' x11' 5"		Triple Exp.	24 - 39 - 65 x 42	1914
Donnelly, Charles	2	Water Tube	Heat. Sur. Oil Fired	1692			1950
Donner, Wm. H.	2	Scotch	14' 6"x11' 6"	1800	Triple Exp.	23½ - 38 - 63 x 42	1914
Douglass Edwin T. (Can.)	2	Scotch	12' x11'		Triple Exp.	16 - 27 - 44 x 33	1923
Dow Chemical	2	Scotch	15' x11' 6"	1760	Triple Exp.	23 - 37 - 63 x 42	1912
Dunlap, Chas. E.	3	Scotch	13' 6"x11' 6"	2300	Triple Exp.	24½ - 41 - 65 x 42	1920
Dunn, John, Jr.	3	Scotch	12' 6"x11'10"	2000	Quad. Exp.	20 - 29 - 42 - 61 x 42	1907
Dubrule, Jos. (Can.)							1914
Durston, J. F.	2	Scotch	13' 9"x11' 6"	1500	Triple Exp.	22 - 35 - 58 x 42	1908
Eads, James B. (Can.)	2	Scotch	15' 4"x11' 6"		Triple Exp.	22 - 39 - 63 x 42	1915
Eaglescliffe Hall (Can.)	2	Scotch	10' 6"x11'	700	Skinner Unaflow	2 Cyl. 25 x 26	1947
Eastern Shell	2	Scotch S. E.	Heat Sur. 2554 sq. ft.	100	Triple Exp.	3 Cyl. 16 - 25½ 40 x 33	1932
Eastern States	6	Scotch	13' 6"x11' 9"	4200	3 Inclined Comp.	52 - 72 - 72 x 84	1902
Easton (Can.)	2	Scotch	12' x11'		Triple Exp.	17 - 28 - 46 x 33	1912
Eaton, Geo. L. (Can.)	2	Scotch	10' 4"x10'10"		Triple Exp.	15 - 25 - 40 x 33	1929
Edenborn, Wm.	2	Water Tube	Heat. Sur. 3474 sq. ft.	1400	Quad. Exp.	16½ - 25 - 38½ - 60 x 40	1927
Edgewater (M. V.)					Turbine Electric		1931
Edmonton (Can.)	2	Scotch	11' x10' 6"		Triple Exp.	17 - 28 - 46 x 33	1906
Eglinton Park (Can.)							1944
Elba	2	Scotch	13' 9"x11' 6"	1500	Triple Exp.	22 - 35 - 58 x 42	1907
Elgin (Can.)	2	Scotch	12' 6"x10' 6"		Triple Exp.	16 - 26½ - 44 x 33	1923
Eliwood, Isaac L.	2	Water Tube	Heat. Sur. 3474 sq. ft.	1400	Quad. Exp.	16½ - 25 - 38½ - 60 x 40	1924
Elmbay (Can.)	2	Scotch	12' 6"x10' 6"		2 2-Cyl. Comp.	16 - 30 x 20	1919
Elm Branch (Can.)	1	Lamont	12,000 hr.		2 Diesels		1944
Emery, John R.	1	Fire Box		200	Non. Cond.	14 x 16	1910
Empire State				700	Nelsco Diesel Twin Screw		1929
Ericsson, J. (Can.)	2	Scotch	14' 6"x11' 6"		Triple Exp.	22½ - 36 - 60 x 42	1914
Erie	1	Fire Box	6' x 9'	150	H. P.	16 x 12	1930
Erie Isle (Can.)							1938
Erie Isle (Motor Ship)				400	2 M. D. 6-71's	Diesels	1951
Essex	1	Scotch	12' 6"x11'		H. P.	20 - 20 x 24	1913

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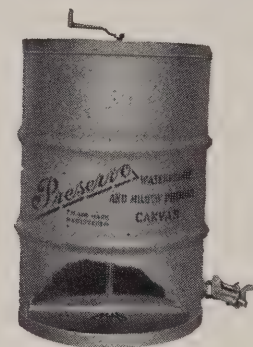
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VESSEL	BOILERS			ENGINES			Year
	No.	Type	Size	Horse Power	Type	Cylinders and Stroke	
Esso Delivery II (M. V.)				700			1924
Everton (Can.)	2	Scotch	13' 3"x11' 6"	1450	Triple Exp.	21½ - 35 - 58 x 42	1908
EWig, Harry T.	2	Scotch	12'10"x13'	1200	Triple Exp.	20 - 33½ - 55 x 40	1902
Fairbairn, Sir Wm.	2	Scotch	14' 6"x12'	1800	Triple Exp.	24 - 28 - 64 x 42	1896
Fairless, Benj. F.	2	Water Tube	Heat. Sur. 6500 sq. ft.	4000	Geared Turbine		1942
Fairmount (Can.)	2	Scotch			Triple Exp.	16 - 26½ - 44 x 33	1923
Farr, Merton E.	3		13' 6"x11'	2300	Triple Exp.	32 - 41 - 67 x 42	1920
Farrandoc	1	Dinkey	5' 3" 9'		2 Oil Elec. Motor	4 Cyl. 15 x 22	1926
Farrell, James A.	2	Water Tube	Heat Sur. 4908 sq. ft.		Triple Exp.	24 - 38 - 65 x 42	1948
Favorite				1400			1919
Fellowcraft	2	Scotch	12' 6"x11' 6"	871	Triple Exp.	16 - 25 - 42 x 30	1903
Ferbert, A. H.	2	Water Tube	Heat. Sur. 6500 sq. ft.	4000	Geared Turbine		1942
Fernie (Can.)	2	Scotch	14' 6"x11'		Triple Exp.	20 - 33 - 54 x 40	1929
Ferris, James E.	2	Scotch	13' 9"x12'	1600	Triple Exp.	22½ - 36 - 60 x 42	1910
Fiertz, Robt. B.				360			1921
Filbert, Wm. J.	2	Water Tube	Heat. Sur. 3729 sq.ft.	1800	Triple Exp.	22¼ - 37½ - 65 x 42	1935
Findlay, Harry L.	2	Scotch	14' 6"x11' 6"	1800	Triple Exp.	23½ - 38 - 63 x 42	1907
Fink, George R.	2	Scotch	11' 6"x14' 6"	1760	Triple Exp.	23½ - 38 - 63 x 42	1906
Finland	2	Scotch	13' 2"x11' 6"	1900	Triple Exp.	22 - 35 - 58 x 42	1902
Firbranch (Can.)	1	Lamont	10,000 to 12,000		2 Diesels @ 660		1944
Fitzgerald, Wm. E.	2	Scotch	13' 9"x11' 6"	1650	Triple Exp.	22 - 35 - 58 x 40	1906
Fontana	2	Scotch	11' x12'	1000	Triple Exp.	16 - 27 - 44 x 33	1924
Ford, Benson				3500	4-Cyl. 2-cycle Diesel		1924
Ford, Emory L.	3	Scotch	13' 6"x11'	2000	Triple Exp.	24½ - 41 - 65 x 42	1916
Ford, Henry II				3500	4-Cyl. 2-cycle Diesel		1924
Fort Meigs				150			
Fort Town (Can.)				320	2 GM. 6-71 Diesel	4¼" x 5"	1951
Fort Wildoc (Can.)	3	Scotch	12' 6"x12'		Triple Exp.	23 - 37½ - 63 x 42	1900
France, J. A. (Can.)	2	Scotch	10' x10'10"		Triple Exp.	15 - 25 - 40 x 33	1929
Franquelin (Can.)					2 Oil Eng., 6 Cyl.	11½ x 15¼	1936
Frantz, Jos. H.	2	Water Tube	Heat. Sur. 3490 sq. ft.	2500	Triple Exp.	24 - 41 - 68 x 42	1937
Fraser, Leon	2	Water Tube	Heat. Sur. 6500 sq. ft.	4000	Geared Turbine		1942
Frick, Henry C.	2	Water Tube		1800	Triple Exp.	24 - 39 - 65 x 42	1937
Frontenac	3	Scotch	13' 6"x11' 3"	1930	Triple Exp.	24½ - 40 - 65 x 42	1923
Frontenac (Can.)							1899
Frontier	1	Fire Box	9' 6"x15' 6"		Double Non-Cond.	20 x 22	1910
Gallagher, Michael	2	Scotch	13' 9"x11' 6"	1650	Triple Exp.	22 - 35 - 58 x 42	1907
Galloway, Chas. W.	2	Scotch	14' 6"x11' 6"	1760	Triple Exp.	23½ - 38 - 63 x 42	1910
Galster, John L. A.	2	Scotch	13' 6"x10' 6"		Triple Exp.	20½ - 33 - 54 x 36	1909



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## BOILERS AND ENGINES OF LAKE VESSELS

245

VESSEL	BOILERS			Horse	ENGINES			Year
	No.	Type	Size	Power	Type	Cylinders and Stroke	Built	
Gary, E. H.	2	Water Tube	Heat. Sur. 3729 sq. ft.	1800	Triple Exp.	24 - 39 - 65 x 42	1936	
Gates, John W.	2	Water Tube	Heat. Sur. 3474 sq. ft.	1400	Quad. Exp.	16½ - 35 - 38½ - 60 x 40	1925	
Georgian (Can.)	4	Scotch	11' 6"x11'		2 4-Cyl., Triple Exp.	16 - 25 - 31 - 31 x 22	1910	
Gilbert				750			1924	
Gillies, Donald B.	2	Scotch	14' 6"x11' 6"	1800	Triple Exp.	23½ - 38 - 63 x 42	1905	
Girdler, Tom M.	2	Water Tube	Heat. Sur. 12,488	9900	Geared Turbine		1946	
Gleneagles (Can.)	2	Scotch	15' 6"x11' 6"		Triple Exp.	24½ - 41½ - 72 x 48	1925	
Glenelg (Can.)	2	Scotch	12' 6"x11'		Triple Exp.	17 - 25 - 43 x 30	1923	
Goderich (Can.)	2	Scotch	15' x12'		Triple Exp.	22½ - 36 - 60 x 42	1915	
Grace, E. G.	2	Water Tube	Heat. Sur. 4673 sq. ft.	2500	Lentz Double Comp.	22½ - 50 - 22½ - 50 x 48	1943	
Grainmotor (Can.)					Diesel	16 x 20	1929	
Grand Island	2	Scotch	12' 6"x12'	1500	Quad. Exp.	18 - 26 - 36 - 55 x 40	1938	
Grand Rapids	4	Scotch	14' 6"x12'	2700	2 Triple Exp.	20½ - 34 - 56 x 36	1926	
Greater Detroit	9	Scotch	14' x10' 6"	12000	Inclined Comp.	66 - 96 - 96 x 108	1923	
Green, Edward B.	2	Water Tube	Heat. Sur.	7000	Geared Turbine		1952	
Grey Beaver (Can.)	2	Scotch	10' 6"x10'10"		Triple Exp.	15 - 25 - 40 x 33	1929	
Hagerty (Can.)	3	Scotch	13' x11'		Triple Exp.	20 - 40 - 66 x 42	1914	
Halcyon	2	Scotch	11' 6"x10' 6"		Comp.	20 - 40 x 28	1926	
Hamildoc (Can.)	2	Scotch	10' 6"x12' 6"		Triple Exp.	16 - 27 - 44 x 33	1927	
Hanna, Howard M., Jr.	2	Scotch	15' 4"x11' 6"	1800	Triple Exp.	23½ - 38 - 63 x 42	1914	
Hanna, Leonard C.	2	Scotch	14' 6"x11' 6"	1800	Triple Exp.	23½ - 38 - 63 x 42	1905	
Harmony				700			1931	
Harvard	2	Water Tube	Heat. Sur. 3072 sq. ft.	1600	Quad. Exp.	16 - 26¾ - 41 - 63 x 42	1928	
Harvester, The	2	Scotch	Oil Fired 15' 4"x11' 6"	1760	Triple Exp.	23½ - 38 - 63 x 42	1911	
Harvey, A. F.	3	Scotch	14' x11' 6"	2200	Triple Exp.	24½ - 40 - 65 x 42	1927	
Hastings (Can.)	2	Scotch	12' 6"x10' 6"		Triple Exp.	16 - 27 - 44 x 33	1923	
Hatfield, Joshua	3	Scotch	11' 6"x13'	2200	Triple Exp.	23½ - 41 - 65 x 42	1923	
Hebard, Chas. S.	2	Water Tube	Heat. Sur. 6513 sq. ft.	2800	Skinner Unaflo	5 cyl. 23½ x 26	1949	
Heekin, Albert E.	2	Scotch	15' 4"x11'	1900	Triple Exp.	23½ - 38 - 63 x 42	1917	
Hemlock	2	Scotch	13' 9"x11' 6"	1500	Triple Exp.	22 - 35 - 58 x 42	1907	
Hennepin	2	Scotch	14' 4"x12'	1800	Triple Exp.	23½ - 38 - 63 x 42	1905	
Heron Bay (Can.)	2	Scotch	14' x12'		Triple Exp.	20 - 33½ - 55 x 40	1907	
Hewitt, Fred L.	2	Scotch	13' 2"x11' 6"	1300	Triple Exp.	20 - 33½ - 55 x 40	1903	
Hill, James J.	2	Water Tube	Heat. Sur. 3474 sq. ft.	1400	Quad. Exp.	16½ - 25 - 38½ - 60 x 40	1926	
Hill, Louis W.	2	Scotch	15' 4"x11'	1900	Triple Exp.	23½ - 38 - 63 x 42	1917	
Hillman, J. H., Jr.	2	Water Tube	Heat. Sur. 7060 sq. ft.	2500	Triple Exp.	24 - 41 - 68 x 42	1943	
Hindman, Blanche (Can.)	2	Scotch	11' x11' 6"	750	Triple Exp.	14 - 24 - 42 x 28	1903	
Hindman, Geo. (Can.)	2	Water Tube	10' x15'		Triple Exp.	17 - 28 - 46 x 36	1946	
Hindman, Helen (Can.)	2	Scotch	11' x11' 6"	750	Triple Exp.	12 - 25 - 42 x 28	1903	
Hindman, Howard (Can.)	2	Scotch	11' x12'		Triple Exp.	17 - 29 - 47 x 36	1943	

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## BOILERS AND ENGINES OF LAKE VESSELS

247

VESSEL	BOILERS			Horse Power	ENGINES		Year
	No.	Type	Size		Type	Cylinders and Stroke	
Hobson, Robert	3	Water Tube	11' x10' 8"	2300	Triple Exp.	24½ - 41 - 65 x 42	1927
Hochelaga (Can.)	2	Water Tube	Heat. Sur. 13,686 sq. ft.	3600	Vickers Skinner Unaflo	27 - 30 - 27 - 27 x 31	1949
Holloway, W. W.	2	Scotch	14' 6"x11' 6"	1760	Triple Exp.	23½ - 38 - 63 x 42	1906
Holst, R. W.				240			1929
Hood, Clifford F.	2	Scotch	14' x11'	1400	Triple Exp.	22 - 35 - 58 x 42	1926
Hosford, Harry W.	2	Scotch	15' 4"x12'	2000	Triple Exp.	22¾ - 38 - 63 x 40	1921
Houghton, Doug. (Can.)	2	Scotch	11' 6"x14'		Quad. Exp.	26 - 37 - 54 - 80 x 42	1910
House, Francis E.	2	Water Tube	Heat. Sur. 3729 sq. ft.	1800	Triple Exp.	22¼ - 37½ - 65 x 42	1935
Hoyt, Elton 2nd	2	Water Tube	Heat. Sur. Oil Fired	7000	Geared Turbine		1952
Hubbard, Charles	2	Scotch	12' 6"x12'	1250	Quad. Exp.	16½ - 24 - 35 - 50 x 42	1907
Hudson, A. A. (Can.)	2	Scotch	10' 6"x13' 3"		Triple Exp.	18 - 30 - 49 x 36	1924
Hudson, Bruce (Can.)							1935
Hulst, John	2	Water Tube	Heat. Sur. 1682 sq. ft.	2000	Steam Turbine		1939
Humberdoc				1200	2-8 Cyl.-Oil	10 - 6 x 13 - 6	1937
Huntley, C. R. (Can.)	2	Scotch	12' x11'		Triple Exp.	17 - 28 - 47 x 33	1926
Huron	2	Scotch	14' 9"x12'	1800	Quad. Exp.	19½ - 28¼ - 41 - 60 x 42	1914
Huron (Can.)	2	Scotch	10'10"x12'		2 H. P. N. C.	30 x 30	1913
Hutchinson, Chas. L.	2	Water Tube	2700 Sq. Ft. H. P. Each	4000	Geared Turbine		1952
Hutchinson, Gene C.	2	Scotch	16' x12' 2"	1900	Triple Exp.	24 - 39 - 65 x 42	1910
Hutchinson, John T.	2	Water Tube	Heat. Sur. 4673 sq. ft.	2500	Lentz Double Comp.	22½ - 50 - 22½ - 50 x 48	1943
Hydro	1	Scotch	13' x12' 6"	500	F. & A.	18 - 38 x 30	1913
Hyman, Myron L.	2	Scotch	12' x11' 9"		Triple Exp.	17 - 48 - 30 x 36	1911
Imp. Cobourg (Can.)	2	Scotch	14' 6"x10' 6"	1450	Triple Exp.	21 - 34 - 56 x 36	1913
Imp. Collingwood (Can.)	2	Water Tube	10,000 hr. each	1200	Skinner Unaflo	3 - 24½ x 24	1947
Imp. Cornwall (Can.)	1	Scotch	16' 0"x11' 6"	750	Triple Exp.	17 - 28 - 46 x 36	1930
Imp. Goderich (M. V.) (Can.)				700	Fairb'ks Morse Oil Eng.	7 - 12 x 15	1938
Imp. Hamilton (Can.)	1	Scotch	15' 0"x11' 0"	937	Triple Exp.	16 - 26 - 44 x 36	1916
Imp. Kingston (Can.)	1	Scotch	15' 0"x11' 0"	1023	Triple Exp.	16 - 26 - 44 x 36	1916
Imp. Lachine (Can.)	1	Scotch	13' 6"x10' 6"	550	Triple Exp.	13½ - 22 - 37 x 27	1930
Imp. Ladue (Can.)	2	Water Tube	Heat Sur. Oil Fired	4500	Steam Turbine Double Reduction Gears		1951
Imp. London (Can.)	2	Water Tube	10,000 hr. each	1200	Skinner Unaflo	3 - 24½ x 24	1947
Imp. Midland (Can.)	2	Scotch	13' 6"x11' 0"	1200	Triple Exp.	18 - 30 - 50 x 36	1913
Imp. Ottawa (Can.)	1	Scotch	13' 6"x10' 6"	550	Triple Exp.	13½ - 22 - 37 x 27	1930
Imp. Redwater (Can.)	2	Water Tube	Heat Sur. Oil Fired	4500	Steam Turbine Double Reduction Gears		1951
Imp. Sarnia (Can.)	2	Water Tube	18,000 hr. each	2900	Parsons Turbine with Double Reduction Gearing		
Imp. Simcoe (Can.)	1	Scotch	16' 0"x11' 6"	750	Triple Exp.	17 - 28 - 46 x 36	1930
Imp. Vancouver (M. V.) (Can.)	1	Cochran	6' 6"x15' 9"	700	Fairb'ks Morse Oil Eng.	7 - 12 - x 15	1938
Imp. Welland (Can.)	1	Scotch	15' 0"x11' 0"	937	Triple Exp.	16 - 26 - 44 x 36	1916



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# BOILERS AND ENGINES OF LAKE VESSELS

249

VESSEL	BOILERS				ENGINES			Year
	No.	Type	Size	Horse Power	Type	Cylinders and Stroke	Built	
Imp. Whitby (Can.)	1	Scotch	14' 6"x11' 0"	775	Triple Exp.	16 - 24 - 41 x 36	1912	
Imp. Windsor (Can.)	1	Scotch	16' 0"x11' 6"	750	Triple Exp.	17 - 28 - 46 x 36	1927	
Imperial Woodbend	2	Water Tube	Heat Sur. Oil Fired	4500	Steam Turbine Double	Reduction Gears	1952	
Ingalls, Geo. H.	2	Scotch	13' x13'	1700	Triple Exp.	22 - 38 - 64 x 40	1901	
Inkster, Walter (Can.)	1	Scotch		1200	6TS 36 Switzerland Diesel	Rebuilt 360 m 600 mm	1941	
Inland, The	1	Donkey	5' 3"x 9'	950	3 Diesel Electric		1895	
International, The	3	Scotch	Oil Fired 13' 6"x11'	2200	Triple Exp.	24½ - 41 - 65 x 42	1926	
Ireland, Robt. L.	2	Scotch	13' 9"x11' 6"	1600	Triple Exp.	22½ - 36 - 60 x 42	1923	
Ironwood	2	Scotch	11' x10'	800	Triple Exp.	15 - 25 - 42 x 36	1914	
Iroquois (Can.)	4	Water Tube	9' x 9' 9"		Triple Exp.	21 - 34 - 58 x 30	1902	
Irvin, Wm. A.	2	Water Tube	Heat. Sur. 1338 sq. ft.	2200	Steam Turbine		1907	
Iselin, Adrian					Fairbanks Morse D		1938	
Ishpeming	2	Water Tube	Heat Sur. 2464 sq. ft.	3000	Steam Turbine		1906	
Island Queen (Can.)	1	Fire Box	4' x 6'		H. P. N. C.	9 x 12	1890	
Joan Virginia (Can.)	2	Scotch	11' x 9' 8"		Triple Exp.	12½ - 19½ - 31½ x 16	1919	
Johnson, Horace	3	Scotch	14' x12'	2200	Triple Exp.	24½ - 41 - 65 x 42	1929	
Johnstown	2	Water Tube	Heat. Sur. Oil Fired	7000	Geared Turbine		1952	
Joliet	2	Scotch	15' 4"x11'	1788	Triple Exp.	23½ - 38 - 63 x 42	1916	
Joliet, Louis (Can.)							1938	
Jones, B. F.	2	Water Tube	Heat. Sur. 4800 sq. ft.	1800	Triple Exp.	23 - 37 - 63 x 42	1945	
Jones, Harry R.	2	Water Tube	13' 6"x12' 2"	1500	Quad. Exp.	15 - 23¾ - 36 - 56 x 40	1903	
Jupiter	2	Scotch	13' 2"x11' 6"	1450	Triple Exp.	22 - 35 - 58 x 40	1901	
Keewatin (Can.)	4	Scotch	14'10"x11'		Quad. Exp.	23½ - 34 - 48½ - 70 x 45	1907	
Kelley Island	1	Scotch	14' x11' 6"	924	F. & A. Comp.	20 - 40 x 30	1914	
Kendrick, E. S.	2	Water Tube	Stoker Heat. S. 5450 Sq. Ft.	2500	Skinner Unaflow	5 Cyl.	1952	
Kenefick, Judge (Can.)	2	Scotch	12' x11'		Triple Exp.	17 - 28 - 46 x 33	1925	
Kenora (Can.)	2	Scotch	12' x11'		Triple Exp.	17 - 28 - 46 x 33	1907	
Kermic (Can.)							1937	
Kerr, D. G.	2	Water Tube	Heat. Sur. 4295 sq. ft.	2200	Triple Exp.	24½ - 41 - 65 x 42	1950	
Keybar (Can.)	2	Scotch	10' 6"x12' 6"		Triple Exp.	16 - 26 - 44 x 33	1927	
Keybell (Can.)	2	Scotch	10' 6"x11' 9"		Triple Exp.	16 - 27 - 46 x 36	1922	
Keydon (Can.)	2	Scotch	10' 6"x12' 6"		Triple Exp.	16 - 27 - 44 x 33	1927	
Keymount (Can.)	2	Scotch	10' 6"x12' 6"		Triple Exp.	16 - 27 - 44 x 33	1927	
Keyport (Can.)	2	Scotch	10' x10' 6"		Triple Exp.	15 - 25 - 42 x 30	1909	
Keyshey (Can.)	2	Scotch	12' 9"x10' 6"	900	Triple Exp.	16 - 26 - 44 x 33	1928	
Keystate (Can.)	2	Scotch	10' 6"x12' 6"		Triple Exp.	16 - 26 - 44 x 33	1923	
Keyvive (Can.)	2	Scotch	11' 6"x10' 6"		Triple Exp.	16 - 26 - 44 x 33	1913	
Keywest (Can.)	2	Scotch	10' 6"x12' 6"		Triple Exp.	16 - 27 - 44 x 33	1927	
King, Willis L.	2	Scotch	16' x12' 2"	2000	Triple Exp.	24 - 38 - 65 x 42	1910	

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## BOILERS AND ENGINES OF LAKE VESSELS

251

VESSEL	BOILERS				Power	ENGINES		Year Built
	No.	Type	Size	Type		Cylinders and Stroke		
Kingdoc (Can.)	2	Scotch	10' 3"x11'			Triple Exp.	15 - 25 - 40 x 33	1927
Kingston (Can.)	4	Scotch	11' x11' 6"			Triple Exp.	28 - 44 - 74 x 72	1901
Kinmount (Can.)	1	Scotch	14' x10' 9"			Triple Exp.	15½ - 26 - 44 x 26	1923
Kinney, A. T.	2	Scotch	13' 9"x11' 6"		1600	Triple Exp.	22½ - 36 - 60 x 42	1908
Kling, John A.	2	Scotch	11' x14' 6"		1600	Triple Exp.	21 - 35 - 59 x 42	1913
Koalkraft					300			
Kopmizer, Norman J.	2	Scotch	13' 9"x11' 6"		1600	Triple Exp.	22½ - 36 - 60 x 42	1906
Kulas, E. J.	2	Water Tube	Oil F. Heat S. 2835 sq. ft.		3500	Skinner Unaflo	5 Cyl. 27 x 30	1925
LaBelle	2	Scotch	14' 6"x11' 6"		1760	Triple Exp.	23½ - 38 - 63 x 42	1909
LaSalle	2	Water Tube	Heat Sur. 2464 sq. ft.		300	Steam Turbine		1906
LaSalle	2	Scotch	14' x10' 6"			3-Cyl. Comp.	22 - 32 - 32 x 36	1922
Lackawanna	2	Scotch	14' 6"x12' 6"		2000	Triple Exp.	23 - 37 - 63 x 42	1945
Lagonda	2	Scotch	12' 6"x12'		1200	Triple Exp.	19 - 31 - 52 x 44	1896
Laketon (Can.)	2	Water Tube	12' x12'			Triple Exp.	20 - 33½ - 55 x 42	1946
Lamont, Thomas W.	3	Scotch	14' x12'		2200	Triple Exp.	24½ - 41 - 65 x 42	1930
Lansdowne (Can.)	1	Scotch	9' 3"x14'			2 Horiz. Comp.	50 x 108	1885
Laughlin, James	2	Water Tube	Heat. Sur.		1800	Triple Exp.	23 - 37 - 63 x 42	1950
Lavaldoc (Can.)	2	Scotch	10' 3"x11'			Triple Exp.	15 - 25 - 40 x 33	1928
LaVerendrye (Can.)								1914
Lawrendoc (Can.)	2	Scotch	10' 3"x11'			Triple Exp.	15 - 25 - 40 x 33	1929
Lebanon	2	Water Tube			1800	Triple Exp.	23 - 37 - 63 x 42	1946
Leecliffe Hall (Can.)	2	Scotch	11' x11'		750	Skinner Unaflo	2 Cyl. 25 x 26	1947
Lehigh	2	Water Tube	Heat. Sur. 7060 sq. ft.		2500	Triple Exp.	24 - 41 - 68 x 42	1943
Lemoyne (Can.)	4	Scotch	13' x11'10"			Triple Exp.	25½ - 41½ - 72 x 48	1926
Leslie, Alex. (Can.)	2	Scotch	13' 2"x11' 6"			Triple Exp.	22 - 35 - 58 x 40	1901
Lethbridge (Can.)	2	Scotch	13' 3"x10'10"			Triple Exp.	18 - 30 - 50 x 36	1924
Leetsdale	2	Scotch	14' x13'		1300	Triple Exp.	23 - 38 - 63 x 40	1901
Levis (Can.)								1910
Lindabury, Richard	3	Scotch	13' 6"x11'		2200	Triple Exp.	24½ - 41 - 65 x 42	1923
Lynch, Thomas	2	Water Tube	Heat. Sur. 4794 sq. ft.		1800	Triple Exp.	24 - 39 - 65 x 42	1940
McAlpine, James E.	2	Scotch	13' 9"x11' 6"		1500	Triple Exp.	22 - 35 - 58 x 40	1908
McCarthy, T. J.	2	Scotch	13' x13'		1700	Triple Exp.	23 - 38 - 64 x 42	1901
McCool, Daniel					480	Diesel		1926
McCullough, C. H. Jr.	2	Water Tube	Heat. Sur. 4260 sq. ft.		2000			1950
McFarland, O. S.	2	Scotch	12' 6"x12'		1210	Triple Exp.	20 - 32½ - 55 x 40	1903
McGean, W. H.	2	Scotch	14' 2"x12'		1650	Triple Exp.	22½ - 36 - 61 x 42	1909
McGonagle, W. A.	3	Scotch	13' 6"x11'		2200	Triple Exp.	24½ - 42 - 65 x 42	1916
McKellar, John (Can.)	2	Scotch	10' x10' 9"			Triple Exp.	15 - 25 - 40 x 33	1929
McKinney, Price	2	Scotch	13' 9"x11' 6"		1500	Triple Exp.	22 - 35 - 58 x 40	1908
McLauchlan, Wm.	3	Water Tube	11' x10' 8"		2300	Triple Exp.	24½ - 41 - 65 x 42	1927



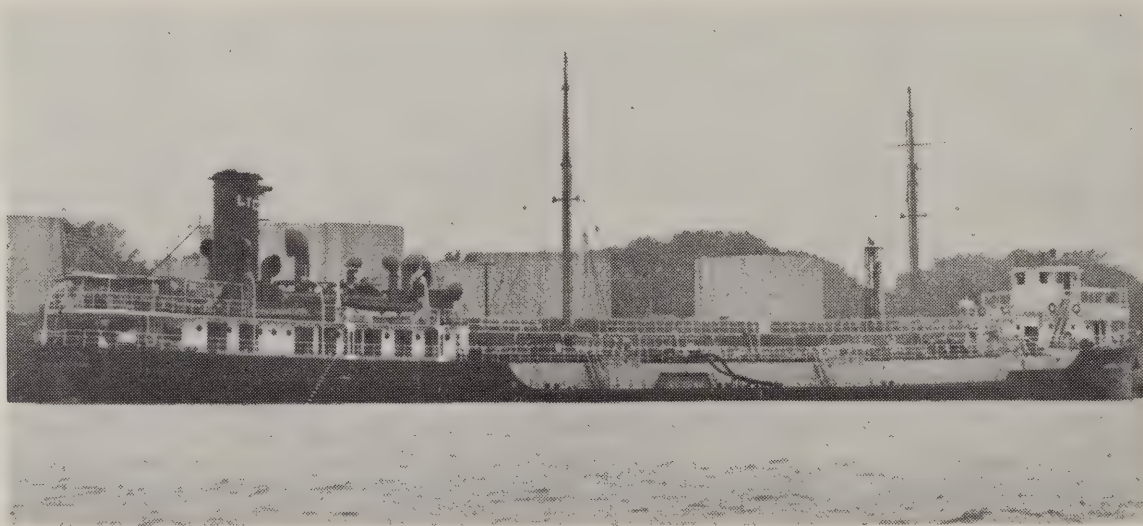
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## BOILERS AND ENGINES OF LAKE VESSELS

253

VESSEL	BOILERS			Horse Power	ENGINES		Year
	No.	Type	Size		Type	Cylinders and Stroke	
McWatters, J. N. (Can.)	2	Scotch	10' 3"x11'	1900	Triple Exp.	15 - 25 - 40 x 33	1929
MacNaughton, James	2	Water Tube	Heat. Sur. 6700 sq. ft.		Triple Exp.	15 - 25 - 40 x 33	1950
MacPherson, N. B. (Can.)	2	Scotch	11'10"x10'10"		Triple Exp.	17 - 28½ - 47 x 33	1925
Mackinac Islander				300			1921
Madison	4	Scotch	14' 6"x12'	2700	2 Triple Exp.	20½ - 34 - 56 x 36	1927
Maine				1800			1921
Makaweli (Can.)							1919
Malietoa	2	Water Tube	Heat. Sur. 3072 sq. ft.	1300	Quad. Exp.	15¾ - 25½ - 38 - 57 x 40	1927
Mancox (Can.)	2	Scotch	Oil Burning 12' x10' 7"		Triple Exp.	12 - 25 - 42 x 28	1903
Manion, Paul D. (Can.)	2	Scotch	10' 1"x10'10"		Triple Exp.	15 - 25 - 40 x 33	1929
Manitoba (Can.)	2	Scotch	14' x11' 6"		F. & A.	30 - 64 x 48	1914
Manitou (Can.)	1	Fire Box	15' x 8' 6"		F. & A.	16 - 32 x 26	1903
Manitoulin (Can.)	3	Navy	7' x16'		2 Triple Exp.	15 - 24 - 40 x 27	1889
Manitowoc	6	Scotch	13' 9"x11' 6"	5200	4 Comp. Cond.		1926
Mantadoc (Can.)	2	Scotch	13' 2"x11' 6"		Triple Exp.	22 - 35 - 58 x 42	1903
Manuel, John S.	2	Scotch	13' 9"x12'	1550	Triple Exp.	22½ - 36 - 60 x 42	1910
Manzzutti, (Can.)	2	Scotch	Oil Burning 11' x11' 6"		Triple Exp.	12 - 24 - 42 x 28	1903
Maplebranch (Can.)	2	Scotch	11' 2"x11' 2"		2 Steeple Comp.	20 - 40 x 36	1891
Maple City (Can.)				320	2 G.M. 6-71 Diesel	4¼" x 5"	1951
Mapleheath (Can.)	2	Scotch	11' x11' 9"		Triple Exp.	17 - 28 - 46 x 36	1903
Martian	2	Scotch	13' 2"x11' 6"	1450	Triple Exp.	22 - 35 - 58 x 40	1901
Marquette	2	Scotch	13' 9"x11'	1250	Triple Exp.	20 - 33½ - 55 x 42	1923
Maryland	2	Scotch	12' 6"x14' 6"	1800	Triple Exp.	23 - 37 - 63 x 42	1944
Massey, F. V. (Can.)	2	Scotch	10' 6"x10'10"		Triple Exp.	15 - 25 - 40 x 33	1929
Mascot				120	Kahlenberg	4 Cyl. 10 x 10½	1946
Mataafa	2	Water Tube	Heat. Sur. 3072 sq. ft.	1200	Quad. Exp.	15¾ - 23¾ - 36 - 56 x 40	1927
Mather, Samuel	3	Water Tube	15' x10' 8"	2300	Recip.	24½ - 41 - 65 x 42	1926
Mather, Wm. G.	3	Water Tube	16' x11' 7"	2300	Quad. Exp.	21½ - 31 - 46½ - 68 x 42	1925
Mathewston (Can.)	3	Scotch	13' 6"x11' 2"		Triple Exp.	25½ - 41 - 67 x 42	1922
Mathiott, E. G.	2	Scotch	15' 6"x11'	1200	Triple Exp.	19 - 31 - 52 x 44	1918
Maunaloa 2 (Can.)	2	Water Tube	Heat. Sur. 3072 sq. ft.		Quad. Exp.	18 - 27 - 40 - 62 x 42	1926
Mauthe, J. L.	2	Water Tube	Heat. Sur. Oil Fired	7000	Geared Turbine		1952
Mead, George W.	2	Scotch	12' x12'		Triple Exp.	18 - 30 - 52 x 40	1905
Meadcliffe Hall (Can.)	2	Scotch	10' 6"x11'		Triple Exp.	15 - 25 - 40 x 33	1929
Meaford (Can.)	2	Scotch	12' 6"x10'10"		Triple Exp.	15½ - 126 - 44 x 26	1925
Meteor	2	Scotch	15' 4"x11'	2000	Triple Exp.	23 - 38 - 63 x 40	1916
Mexoil	2	Scotch	11' x14' 3"	750	2 F. & A. Comp.	16 - 32 x 24	1921
Myers, Carl W.	2	Water Tube	15' 4"x11' 6"	1800	Quad. Exp.	17 - 24½ - 35 - 58 x 42	1897
Michigan (Cleve-Cliff)	2	Scotch	14' 3"x12'	1700	Triple Exp.	23 - 37 - 63 x 42	1941
Michigan	2	Scotch	12'10"x13'	1200	Triple Exp.	22 - 33½ - 55 x 40	1902
Midland City (Can.)							1895

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## BOILERS AND ENGINES OF LAKE VESSELS

255

VESSEL	BOILERS			Horse Power	ENGINES		Year Built
	No.	Type	Size		Type	Cylinders and Stroke	
Midland Prince (Can.)	2	Scotch	15' 6"x12'		Triple Exp.	23 - 38½ - 63 x 42	1907
Miller Governor	2	Water Tube	Heat. Sur. 1338 sq. ft.	2000	Steam Turbine		1938
Miller, J. Clare	2	Scotch	14' 6"x11' 6"	1760	Triple Exp.	23½ - 38 - 63 x 42	1906
Mills, D. O.	2	Scotch	14' 6"x12' 6"	1800	Triple Exp.	23 - 38 - 65 x 42	1941
Milwaukee Clipper	4	Scotch	12' 6"x11' 6"	3000	Diesel		1941
Minch, Phillip	2	Scotch	10' 3"x11'	1400	Triple Exp.	15 - 25 - 40 x 33	1928
Misener, Lt. J. (Can.)	2	Scotch	10' x10'10"		Triple Exp.	15 - 25 - 40 x 33	1929
Misener, Ralph S. (Can.)	2	Scotch	10' x10'10"		Triple Exp.	15 - 25 - 40 x 33	1929
Misener, Scott	2	Water Tube		6000	Steam Turbine	2 Cyl.	1951
Mitchell, Samuel	2	Scotch			Triple Exp.	18½ - 36 - 56½ x 42	1928
Mohawk Deer (Can.)	2	Scotch	15' x11'		Triple Exp.	20 - 37½ - 63 x 44	1916
Moloney, D. A.	2	Scotch	12'10"x13'	1200	Triple Exp.	20 - 33½ - 55 x 40	1902
Mondoc (Can.)	2	Scotch	12' x11'		Triple Exp.	16 - 27 - 44 x 33	1928
Montauk							1891
Moody, R. E.	2	Scotch	14' x12'	1310	Triple Exp.	20 - 33½ - 55 x 40	1903
Morgan, J. Pierpont	2	Water Tube	Heat. Sur. 3819 sq. ft.	1800	Triple Exp.	24 - 39 - 65 x 42	1937
Morgan, J. P., Jr.	2	Water Tube	Heat. Sur. 4777 sq. ft.	1800	Triple Exp.	24 - 39 - 65 x 42	1945
Morrell, Daniel J.	2	Water Tube		2100	Triple Exp.	24 - 39 - 65 x 42	1945
Morris-Brock				180	Diesel	8¾ x 10½ Stroke	1945
Morrow, Jos. S.	2	Scotch	13' 9"x11' 6"	1500	Triple Exp.	22 - 35 - 58 x 42	1907
Morse, Jay C.	2	Scotch	14' 6"x12' 6"	1800	Triple Exp.	23 - 38 - 63 x 42	1942
Morse, Samuel F. B.	2	Water Tube	Heat. Sur. 3184 sq. ft.	1400	Quad. Exp.	17 - 25 - 38½ - 60 x 42	1928
Mudge, Edmund W.	2	Scotch	14' 6"x11' 6"	1765	Triple Exp.	23½ - 38 - 63 x 42	1911
Munising	2	Scotch	13' 2"x11' 6"	1310	Triple Exp.	22 - 35 - 58 x 40	1902
Munson, John G.	2	Water Tube		7000	Geared Turbine		1952
Murphy, E. P. (Can.)	2	Scotch	10' x10'10"		Triple Exp.	15 - 25 - 40 x 33	1929
Murphy, Simon J.	2	Scotch	14' 6"x10' 6"	1150	Triple Exp.	22 - 35 - 58 x 42	1920
Mystic Isle				330	2 Diesel (Gray)	4¼x5 with 4-4:1 Rdn. Gear	1942
Nassau	2	Scotch	11' 6"x12'	875	Triple Exp.	18 - 30 - 48 x 42	1893
Negaunee	2	Scotch	13' 2"x11' 6"	1280	Triple Exp.	22 - 35 - 58 x 40	1902
Nettleton, A. E.	2	Water Tube	Heat. Sur. 4085 sq. ft.	1800	Triple Exp.	23½ - 38 - 63 x 42	1908
New Haven Socony				700			1934
New York News (Can.)	2	Scotch	13' 6"x10' 6"		Triple Exp.	17 - 28 - 46 x 36	1925
Newscarrier (Can.)							1936
Niagara	2	Scotch	11' x12'	900	Triple Exp.	17 - 28 - 47 x 36	1897
Nisbet, W. F. (Can.)	2	Scotch	12' x11'		Triple Exp.	16 - 27 - 44 x 33	1923
No Nox				660			1929
Norco (Can.)	2	Scotch	11' x11' 6"		Triple Exp.	17 - 28½ - 48 x 36	1915
Norisle (Can.)	1	Scotch	12' 0"x16' 6"		Triple Exp.	17 - 25 - 43 x 30	1946
Normac (Can.)							1902



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257

VESSEL	BOILERS			Horse	ENGINES		Year
	No.	Type	Size	Power	Type	Cylinders and Stroke	Built
Noronic (Can.)	4	Scotch	15' 6"x11'		Triple Exp.	29½ - 47½ - 58 x 42	1913
North American	3	Scotch	12' 7"x12'	2000	Quad. Exp.	17½ - 25 - 36 - 52 x 36	1913
Northcliffe Hall (Can.)	2	Scotch	11' x11'	750	Skinner Unaflo	2 Cyl. 25 x 26	1947
Norton, David Z.	2	Scotch	13' 9"x11' 6"	1600	Triple Exp.	22½ - 36 - 60 x 42	1906
Northumberland (Can.)							1891
Norway	3	Scotch	12' 6"x12'	2000	Quad. Exp.	20 - 29 - 42 - 61 x 42	1910
Norwood Park (Can.)							1944
Oakbranch (Can.)	2	Scotch	10' x10'	74	Triple Exp.	14¾ - 24 - 38 x 22	1904
Odanah	2	Scotch	13' 9"x11' 6"	1500	Triple Exp.	22 - 35 - 58 x 42	1907
Ojibway (Can.)				135	8 Cylinder Diesel		1946
Olcott, Wm. J.	2	Water Tube	Heat. Sur. 4794 sq. ft.	1800	Triple Exp.	24 - 38 - 65 x 42	1944
Oglebay Crispin	2	Scotch S. E. D.	Heat Sur. 7025.6 sq. ft. Size 15' 3"x13'	1875 n 2150 F	Triple Exp.	24 - 39 - 65 x 42	1908
Olds, Irving S.	2	Water Tube	Heat. Sur. 6500 sq. ft.	4000	Geared Turbine		1942
Ontadoc (Can.)	2	Scotch	13' 2"x11' 6"		Triple Exp.	22 - 35 - 58 x 40	1903
Ontario No. 1 (Can.)	4	Scotch	14' x12'		2 Triple Exp.	20½ - 32½ - 54 x 36	1907
Ontario No. 2 (Can.)	4	Scotch	14' x12'		2 Triple Exp.	20½ - 33 - 54 x 36	1915
Orleans (Can.)							1898
Osler (Can.)	3	Scotch	12' x12'		Quad. Exp.	19 - 28 - 40 - 58 x 42	1907
Ontarde (Can.)	2	Scotch	10' 6"x13' 3"		Triple Exp.	18 - 30 - 49 x 36	1924
Paine, Wm. A.	2	Scotch	13' 9"x11' 6"	1500	Triple Exp.	22½ - 36 - 60 x 42	1905
Paisley, Robt. J.	2	Scotch	15' x11' 6"	1480	Triple Exp.	22 - 35 - 58 x 42	1929
Palmer Wm. P.	2	Water Tube	Heat. Sur. 4794 sq. ft.	1800	Triple Exp.	24 - 38 - 65 x 42	1944
Panoil	2	Scotch	11' 1"x14' 3"	750	2 Recip.	16 - 32 x 24	1920
Papercarrier (Can.)							1936
Paratex				1200	2 Oil Eng., 4 Cyl.	14 x 23½	1938
Pargny, Eugene W.	2	Auxiliary	Heat Sur. 880 sq. ft.	3093	Hamilton Diesel	8 Cyl. 21½ x 27½	1917
Parks, Beaumont	2	Scotch	15' 4"x11' 6"	1760	Triple Exp.	23½ - 38 - 63 x 42	1912
Pathfinder	2	Scotch	14' 6"x12' 6"	1800	Triple Exp.	23 - 38 - 63 x 42	1941
Paul, C. A.	2	Water Tube	Stoker Heat. S. 5450 Sq. Ft.	2500	Skinner Unaflo	5 Cyl.	1952
Pearson	1	Scotch	9' x 8' 6"		Steeple Comp.	11 - 22 x 16	1911
Pelee (Can.)	1	Scotch	12' 6"x11'		Triple Exp.	12½ - 21 - 34 x 21	1914
Penetang (Can.)	2	Scotch	12' 6"x10'10"		Triple Exp.	15½ - 26 - 44 x 26	1925
Penobscot	2	Scotch	13' x12'	1500	Triple Exp.	22 - 35 - 59 x 44	1895
Pere Marquette 10	4	Scotch Marine	14' x12'	3200	2 Skinner Unafow	3 24	1945
Pere Marquette 12	4	Scotch Marne	14' 6"x12'	2400	2 Compound	3 - 26¼ - 40 - 40 x 36	1927
Pere Marquette 14	4	Scotch Marine	13' 9"x11' 8¼"	2000	2 Compound	2 - 28 - 52 x 36	1904
Pere Marquette 18	4	Scotch Marine	13' 9"x12' 5¼"	2500	2 3-Cyl. Triples	3 - 19 - 31 - 52 x 36	1911
Pere Marquette 21	4	Scotch Marne	14' 6"x11'	2700	2 3-Cyl. Triples	3 - 20½ - 34 - 56 x 36	1924

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VESSEL	BOILERS			Horse Power	ENGINES		Year Built
	No.	Type	Size		Type	Cylinders and Stroke	
Pere Marquette 22	4	Scotch Marne	14' 6"x11'	2700	2 3-Cyl. Triples	3 - 20½ - 34 - 52 x 36	1924
Perkins, Geo. W.	2	Water Tube	Heat. Sur. 3729 sq. ft.	1800	Triple Exp.	24 - 39 - 65 x 42	1936
Perseus	2	Scotch	13' 2"x11' 6"	1500	Triple Exp.	22 - 36 - 60 x 40	1905
Petroheat							1939
Phipps, Henry	2	Water Tube	Heat. Sur. 4794 sq. ft.	1800	Triple Exp.	24 - 39 - 65 x 42	1941
Pickands, Col. James	3	Water Tube	15' x10' 8"	2300	Recip.	24½ - 41 - 65 x 42	1925
Pierce, Daniel	3	Scotch	Single End H. S. 6894 Sq. Ft.	2400	Triple Exp.	25 - 41 - 68 x 48	1921
Pillsbury, J. S. (Can.)	2	Scotch	12' x11'		Triple Exp.	17 - 28 - 46 x 33	1926
Pinebay (Can.)	2	Scotch	12' 6"x10' 6"		2 F. & A. Comp.	16 - 30 x 19½	1919
Pinebranch (Can.)	1	Scotch	5' 6"x14'	88	Triple Exp.	16½ - 25 - 42 x 36	1895
Pine Ridge	1	Scotch	11' x11' 5"		Steeple Comp.	13 - 27 x 18	1913
Pioneer	2	Scotch	13' 9"x12'	1525	Triple Exp.	22½ - 36 - 60 x 42	1907
Plattsburg Socony				700			1934
Poe, Gen. Orlando M.	2	Water Tube	Heat. Sur. 3104 sq. ft.	1400	Quad. Exp.	17 - 25 - 38½ - 60 x 42	1929
Polaris				1800	2-12 CLY Diesel		1945
Pollock, W. G.	2	Scotch	13' 9"x11' 6"	1470	Triple Exp.	22 - 35 - 58 x 40	1906
Pomeroy, R. W. (Can.)	2	Scotch	12' x11'		Triple Exp.	16 - 27 - 44 x 33	1923
Ponoka (Can.)	3	Scotch	14'10"x12' 6"		Steeple Comp.	18½ - 52 x 36	1917
Pontiac	3	Scotch	13' 6"x11'	1740	Triple Exp.	24½ - 40 - 65 x 42	1917
Pope, E. C.	1	Scotch	15' 6"x11'10"	2000	Triple Exp.	22 - 35 - 56 x 44	1922
Poplarbranch (Can.)	1	Lamont	10 to 12,000 hr.		2 Diesel@660 h. p. each		1944
Post, G. G.	2	Scotch	12' x13' 2"	1200	Triple Exp.	20 - 33½ - 35 x 40	1916
Poughkeepsie Socony				700			1934
Prescodoc	2	Scotch	10' 1"x10'10"		Triple Exp.	15 - 25 - 40 x 33	1929
Prescott (Can.)	2	Scotch	13' 2"x11' 6"		Triple Exp.	22 - 35 - 58 x 42	1903
Presque Isle	2	Scotch	13' 9"x11'	1605	Quad. Exp.	17 - 25½ - 39 - 60 x 40	1922
Princeton	2	Water Tube	Heat. Sur. 3072 sq. ft.	1600	Quad. Exp.	18 - 26¾ - 41 - 63 x 42	1928
Prindoc (Can.)	2	Scotch	13' 2"x11' 6"	1450	Triple Exp.	22 - 35 - 58 x 42	1902
Providence Socony				700			1924
Purnell, Frank	2	Water Tube	Heat. Sur. 7060 sq. ft.	2500	Triple Exp.	24 - 41 - 68 x 42	1943
Put-in-Bay	4	Scotch	12' 6"x10' 6"	3000	Triple Exp.	25 - 40 - 45 - 45 x 36	1911
Quebec (Can.)	6	Scotch	14' x11' 6"		Triple Exp.	24 - 33 - 44 x 36	1928
Quedoc (Can.)	2	Scotch	14' 6"x11' 3"		Triple Exp.	21 - 38 - 61 x 42	1915
Queenston (Can.)	2	Marine	10' 3"x11' 0"		Triple Exp.	15 - 25 - 40 x 33	1927
Rammacher, J. J. (Can.)	2	Scotch	12' x11'		Triple Exp.	16 - 27 - 44 x 33	1923
Rand, George F.	3	Scotch	12' 6"x11' 6"	1765	Triple Exp.	23½ - 38 - 63 x 42	1911
Randall, Clarence	2	Water Tube	Heat. Sur. 7060 sq. ft.	2500	Triple Exp.	24 - 41 - 68 x 42	1943
Ranney, Rufus P.	2	Scotch	13' 9"x11' 6"	1600	Triple Exp.	22 - 35 - 58 x 40	1908
Rapids King (Can.)	2	Scotch	14' 4"x12'		Triple Exp.	15½ - 24 - 30 - 30 x 22	1907



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VESSEL	BOILERS			Horse Power	ENGINES		Year	
	No.	Type	Size		Type	Cylinders and Stroke		
Rapids Prince (Can.)	1	Scotch	14' 8"x11' 6"	1800	2 Triple Exp.	12½ - 20 - 22 - 22 x 16	1910	
Ream, Norman B.	2	Water Tube	Heat. Sur. 4794 sq. ft.		Triple Exp.	24 - 39 - 65 x 42	1940	
Redcloud (Can.)	3	Scotch	16' 6"x12'		2 Oil Eng., 4 Cyl.	9½ x 16½	1930	
Red Crown					Triple Exp.	25½ - 41 - 68 x 42	1937	
Redfern (Can.)					2 Oil Eng., 5 Cyl.	9½ x 16½	1930	
Redriver (Can.)				2 Oil Eng., 5 Cyl.	9½ x 16½	1930		
Redwood (Can.)				2 Oil Eng., 5 Cyl.	9½ x 16½	1930		
Regent				850			1934	
Reiss Brothers	3	Scotch	11' 2"x14' 6"	2200	Triple Exp.	25½ - 41 - 67 x 42	1924	
Reiss, Clemens A.	2	Water Tube	12' x11'	1700	Quad. Exp.	15 - 23¾ - 36½ - 56 x 40	1901	
Reiss, J. L.	2	Scotch	13' 9"x11' 6"	1650	Triple Exp.	22½ - 36 - 60 x 42	1906	
Reiss, John P.	2	Scotch	14' 6"x11' 6"	1760	Triple Exp.	23½ - 38 - 63 x 42	1910	
Reiss, Otto M.	2	Scotch	13' 9"x11' 6"	1800	Triple Exp.	22 - 35 - 58 x 40	1906	
Reiss, Peter	2	Scotch	14' 6"x11' 6"	1600	Triple Exp.	23½ - 38 - 63 x 42	1910	
Reiss, Richard J.	2	Water Tube	Heat. Sur. 7060 sq. ft.	2500	Triple Exp.	24 - 41 - 68 x 42	1943	
Reiss, William A.	3	Water Tube	16' 3"x11' 7"	2500	Triple Exp.	24 - 41 - 68 x 42	1925	
Renvoyle (Can.)	2	Scotch	15' x11' 6"	1469	Triple Exp.	22½ - 37 - 62 x 42	1925	
Reynolds, W. B. (Can.)	2	Scotch	10' x10' 6"		Triple Exp.	15 - 25 - 40 x 33	1927	
Richards, J. B. (Can.)	2	Scotch	11' x10' 11"		Triple Exp.	17 - 28½ - 47 x 33	1925	
Richardson, W. C.	2	Scotch	13' 9"x11' 6"		Triple Exp.	22 - 35 - 58 x 40	1908	
Richelieu (Can.)	6	Scotch	13' 6"x11'		2 Triple Exp.	23½ - 37½ - 42 x 36	1913	
River Shell, M. V. (Can.)	1	Donkey	Small	600	2 Oil Eng. 4 Cyl.	11 13/16 x 15¾	1933	
Roberts, Percival, Jr.	2	Water Tube	Heat. Sur. 4908 sq. ft.	1800	Triple Exp.	24 - 39 - 65 x 42	1946	
Robinson, C. S.	2	Scotch	13' 9"x11' 6"	1600	Triple Exp.	22½ - 36 - 60 x 42	1906	
Robinson, T. W.	3	Water Tube		3000	Turbine Electric		1941	
Rockcliffe Hall (Can.)	2	Scotch	10' 6"x11'	1400	Triple Exp.	15 - 25 - 40 x 33	1926	
Rocket	2	Scotch			Triple Exp.	19 - 31 - 54 x 42	1913	
Rockwood	2	Scotch	11' x12'		800	Triple Exp.	17 - 28 - 47 x 36	1889
Rogers, Henry H.	2	Water Tube	Heat. Sur. 3490 sq. ft.	1800	Triple Exp.	24 - 39 - 65 x 42	1938	
Rome Socony				700			1924	
Roosevelt, Theo.	6	Scotch	11' 6"x11' 6"	5000	Triple Exp.	27 - 48 - 56 x 40	1906	
Roseleaf (Can.)	1	Scotch	15' 0"x11' 0"	610	Compound	20 - 42 x 24	1915	
Royalton (Can.)	3	Scotch	14' x10' 9"		Triple Exp.	24½ - 41½ - 72 x 48	1924	
St. Lawrence (Can.)	6	Scotch	13' 2"x11'	3200	Triple Exp.	22 - 36 - 40 x 36	1927	
Ste. Marie	6	Scotch	12' x11'		2 F. & A. Comp.	28 - 52 x 42	1912	
Ste. Claire	2	Scotch	13' 2"x12'		1600	Triple Exp.	20½ - 32 - 50 x 36	1910
Sandcraft	2	Scotch	14' 6"x11'		Triple Exp.	20 - 33 - 54 x 42	1918	
Sandland (Can.)	2	Scotch	14' 6"x11'		900	Triple Exp.	16 - 27 - 44 x 30	1925
Sandmaster				68	2 6-Cyl. Diesel		1918	
Sandy					6 Cylinder Gas Machine		1940	

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## BOILERS AND ENGINES OF LAKE VESSELS

263

VESSEL	BOILERS			Horse Power	ENGINES		Year Built
	No.	Type	Size		Type	Cylinders and Stroke	
Saracen (Can.)	2	Scotch	10' x10' 9"		Triple Exp.	15 - 25 - 40 x 33	1929
Saskadoc (Can.)	2	Scotch	12' 6"x12'		Triple Exp.	23 - 37½ - 63 x 42	1900
Sault Ru Mouton (Can.)							
Saunders, E. N., Jr.	2	Scotch	14' 6"x11' 6"	1800	Triple Exp.	23 - 38 - 63 x 42	1945
Schenectady Socony				700			1908
Schiller, Wm. B.	2	Water Tube	Heat. Sur. 4848 sq. ft.	1800	Triple Exp.	24 - 39 - 65 x 42	1924
Schneider, Cletus	2	Scotch	12' x13' 2"	1100	Triple Exp.	20 - 32½ - 55 x 40	1945
Schneider, Pam	2	Scotch	14' 6"x11' 2"	1200	Triple Exp.	21 - 34 - 58 x 40	1902
Schoellkoph, J. F., Jr.	2	Water Tube	Heat Sur. 10186 sq. ft.	3500	3 Skinner Unaflo	4 Cyl. 28 x 30	1918
Schoonmaker, Col. J. M.	2	Water Tube	Foster Wheeler Oil Fired	4500	Reduction Gear	Turbine	1907
Schwab, Chas. M.	3	Scotch	13' 6"x11'	2300	Triple Exp.	24½ - 41 - 65 x 42	1952
Schwartz, K. V.	1	Scotch	16' x13'	900	F. & A.	28 - 48½ x 48	1923
Scotiadoc (Can.)	2	Scotch	13' 9"x11' 6"	1450	Triple Exp.	22 - 35 - 58 x 40	1894
Scobell, Joseph S.	2	Scotch	11' x12'	900	Triple Exp.	17 - 29 - 47 x 36	1904
Secord, Capt. C. D. (Can.)	2	Scotch	15' 4"x11'		Quad. Exp.	20½ - 30 - 43½ - 63 x 42	1891
Selkirk (Can.)	2	Scotch	13' 6"x11'		Triple Exp.	18 - 30 - 50 x 36	1916
Sellwood, Joseph	2	Scotch	13' 9"x11' 6"	1600	Triple Exp.	22½ - 36 - 60 x 42	1926
Sensibar, J. R.	2	Scotch	15' 9"x11'	3000	Turbine Generator		1906
Servishell (Can.)							1930
Setbert, Edw. G.	2	Scotch	15' 4"x11' 6"	2400	Triple Exp.	23½ - 38 - 63 x 42	1937
Shasta	2	Scotch	13' 2"x11' 6"	1450	Triple Exp.	22 - 35 - 58 x 40	1939
Shaughnessy, Sir Thomas (Can.)	2	Scotch	13' 9"x11' 6"		Triple Exp.	22½ - 36 - 60 x 42	1902
Shaw, Howard L. (Can.)	2	Scotch	14' 6"x10' 6"		Triple Exp.	22 - 35 - 58 x 42	1906
Sheadle, J. H.	2	Water Tube	Heat. Sur. 4260 sq. ft.	1900	Lentz Airheater	24 - 40 - 57 x 40	1922
					2220 sq. ft.		1946
Shelter Bay (Can.)	2	Scotch	11' 6"x13'		Triple Exp.	16 - 27 - 44 x 30	
Shenango	2	Water Tube	Foster Wheeler Oil Fired	4500	Reduction Gear	Turbine	1922
Sherwin, John	2	Scotch	14' 6"x12' 6"	1600	Triple Exp.	22½ - 36 - 60 x 42	1952
Shiras, MacGilvray	2	Scotch	14' x11'	1400	Triple Exp.	22 - 35 - 58 x 40	1940
Sierra	2	Scotch	15' x12'	1250	Quad. Exp.	16½ - 24 - 35 - 50 x 42	1924
Simcoe (Can.)	2	Scotch	12' x11'		Triple Exp.	16 - 27 - 44 x 30	1918
Sinaloa	2	Scotch	13' 2"x11' 6"	1310	Triple Exp.	20 - 33½ - 55 x 42	1923
Sloan, George A.	2	Water Tube	Heat. Sur. 7060 sq. ft.	2500	Triple Exp.	24 - 41 - 68 x 42	1903
Smith, Edmund P.	2	Scotch	13' 9"x12'	1600	Triple Exp.	22½ - 35 - 58 x 40	1943
Smith, Hurlbut W.	2	Scotch	13' 2"x11' 6"	1500	Triple Exp.	22½ - 35 - 58 x 40	1907
Smith, Lyman C.	2	Scotch	14' 6"x11' 6"	1800	Triple Exp.	22½ - 35 - 58 x 40	1903
Snyder, Wm. P., Jr.	3	Scotch	14' 9"x12' 2"	2500	Quad. Exp.	23½ - 38 - 63 x 42	1905
Sonora	2	Scotch	14' x12'	1200	Triple Exp.	23 - 33½ - 48 - 69 x 42	1912
Soodoc (Can.)	2	Scotch	13' 2"x11' 6"		Triple Exp.	20 - 33 - 54 x 40	1902
Soreldoc (Can.)	2	Scotch	10' x10' 9"		Triple Exp.	22 - 35 - 58 x 40	1902
					Triple Exp.	15 - 25 - 40 x 33	1929



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MARINE AND INDUSTRIAL

MAINTENANCE PAINTS

DeVILBISS SPRAY EQUIPMENT

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Phone 670

236 E. Market St.

ROBERT L. WILKE, Manager

## BOILERS AND ENGINES OF LAKE VESSELS

265

VESSEL	BOILERS			Horse Power	ENGINES		Year
	No.	Type	Size		Type	Cylinders and Stroke	
South American	3	Scotch	12' x 14'	2500	Quad. Exp.	21½ - 30¾ - 44½ - 64 x 36	1914
Spartan	4	Foster Wheeler	Type "D"	8000	2 Skinner Uniflow	5 Cyl.	1952
Sprucebay (Can.)	2	Scotch	11' 6" x 9' 8"		Triple Exp.	12 - 20 - 31½ x 16½	1920
Sprucebranch (Can.)	1	Lamont	10 to 12,000		2 Diesel @ 660 h. p. each		1944
Stackhouse, Powell	2	Scotch	14' 6" x 11' 6"	1600	Triple Exp.	22½ - 38 - 63 x 42	1905
Stadacona (Can.)	3	Scotch	15' x 11' 6"		Triple Exp.	24½ - 41½ - 72 x 48	1929
Standard Portland Cement	2	Scotch	13' 9" x 11' 6"	1550	Triple Exp.	22½ - 36 - 60 x 42	1909
Stanley, Robt. C.	2	Water Tube	Heat. Sur. 7060 sq. ft.	2500	Triple Exp.	24 - 41 - 68 x 42	1943
Stonto, John	2	Scotch	14' 6" x 11' 6"	1800	Triple Exp.	23½ - 38 - 63 x 42	1905
Starbuck (Can.)	2	Scotch	11' 6" x 11'		Triple Exp.	19 - 30 - 54 x 40	1888
Starmount (Can.)	2	Scotch	12' x 11'		Triple Exp.	16 - 26½ - 44 x 33	1923
Steel Electrician (M. V.) (Can.)	1	Donkey	5' 3" x 9'	950	3 Diesel Electric		1926
Steel King	2	Scotch	13' 9" x 11' 4"	1500	Triple Exp.	22¼ - 38¼ - 64¼ x 42	1913
Steelton	2	Water Tube	Heat. Sur. 7060 sq. ft.	2500	Triple Exp.	24 - 41 - 68 x 42	1943
Steinbrenner, Henry	2	Scotch	11' 6" x 14'	1750	Triple Exp.	23 - 38 - 63 x 40	1921
Stephenson, Geo.	2	Scotch	14' x 11' 6"	1700	Triple Exp.	25 - 40 - 67 x 44	1913
Stewart, James (Can.)	2	Scotch	12' x 11'		Triple Exp.	17 - 28 - 46 x 33	1926
Stewart, Robert W.	2	Scotch	15' 4" x 11' 6"	2100	Triple Exp.	23½ - 38 - 63 x 42	1928
Stewart, Wm. J. (Can.)	2	Scotch	13' 6" x 11' 2"		2 Triple Exp.	13½ - 20½ - 34 x 24	1932
Stifel, Wm. F.	2	Scotch	13' x 11' 6"	1400	Triple Exp.	21 - 34½ - 57 x 42	1908
Stone, Amasa				2100	Skinner Uniflow		1952
Straits of Mackinac	2	Scotch	11' 10" x 11' 2"	1100	Triple Exp.	16 - 26½ - 45 x 33	1928
Stuart, M. H.	1	Scotch	10' 6" x 10' 6"		F. & A.	14 - 28 x 17	1921
Sullivan Brothers	2	Water Tube	12' x 10'	1700	Quad. Exp.	15¼ - 23½ - 36¼ - 56 x 40	1901
Sullivan, J. J.	2	Scotch	14' 6" x 11' 6"	1800	Triple Exp.	23½ - 38 - 63 x 42	1907
Sultana	2	Scotch	14' x 12'	1200	Triple Exp.	20 - 33 - 54 x 40	1902
Sumatra	2	Water Tube	3' 6" x 15'	1585	Quad. Exp.	17 - 26 - 39 - 60 x 40	1925
Superior (Can.)	2	Scotch	12' 6" x 11'		Triple Exp.	17½ - 28¾ - 47 x 33	1931
Supertest (Can.)					Diesel		1928
Supreme				700			1931
Sweden	2	Scotch	13' 2" x 11' 6"	1500	Triple Exp.	22½ - 35 - 58 x 42	1902
Sykes, Wilfred	2	Water Tube	Heat Sur. 4170 sq. ft.	7000	Geared Turbine		1949
Sylvania	2	Scotch	14' 4" x 12'	1800	Triple Exp.	23½ - 38 - 63 x 42	1905
Tadoussac (Can.)	6	Scotch	14' x 11' 6"		Triple Exp.	24 - 38 - 44 - 44 x 36	1928
Tampico	2	Scotch	12' 6" x 11' 2"	800	Triple Exp.	19½ - 30 - 52 x 40	1900
Taplin, Frank E.	2	Scotch	13' 9" x 11' 6"	1470	Triple Exp.	22 - 35 - 58 x 42	1907
Tate, Ben E.	2	Scotch	14' 6" x 11'	1170	Triple Exp.	20 - 33½ - 55 x 40	1934
Taurus				700			1924
Taylor, B. H.	2	Water Tube		2600	Triple Exp.	25½ - 41 - 67 x 42	1946

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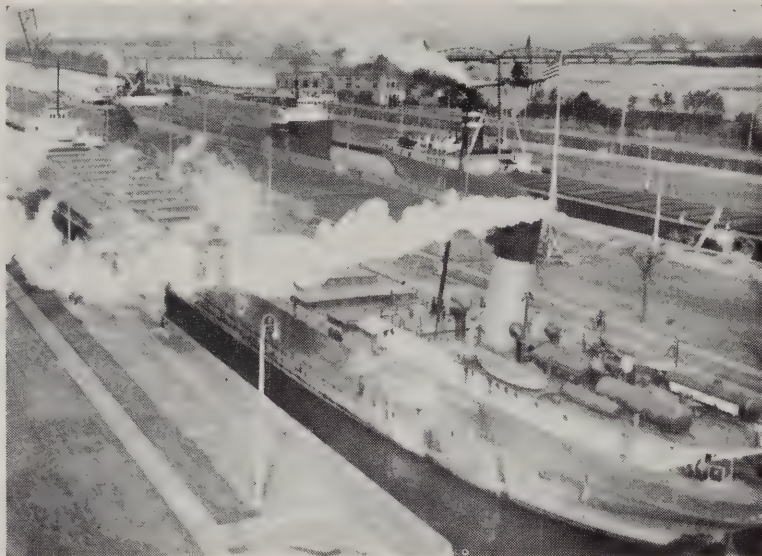
FRANK T. PATYK, Prop.

## BOILERS AND ENGINES OF LAKE VESSELS

267

VESSEL	BOILERS			Horse	ENGINES		Year	
	No.	Type	Size	Power	Type	Cylinders and Stroke	Built	
Taylor, Myron C. ....	2	Water Tube	Heat. Sur. 4252 sq. ft.	2200	Triple Exp. ....	24½ - 40 - 65 x 42	1929	
Taylor, Shirley (Can.) ..	2	Scotch	12' x11'		Triple Exp. ....	17 - 28 - 46 x 33	1925	
Teakbay (Can.) .....	2	Scotch	10' 6"x11'		Triple Exp. ....	15 - 25 - 40 x 33	1929	
Texaco Brave (Can.) .....	1	Scotch	16' 6"x11' 6"		Triple Exp. ....	17 - 28 - 46 x 46	1929	
Texaco Chief (Can.) .....	2	Scotch	14' 8"x11'		Triple Exp. ....	19 - 33 - 54 x 42	1930	
Texaco Warrior (Can.) ..	2	Scotch	14' 8"x11'		Triple Exp. ....	19 - 33 - 54 x 42	1930	
Thomas, Eugene P. ....	3	Scotch	14' x12'	2200	Triple Exp. ....	24½ - 40 - 65 x 42	1930	
Thompson, Carmi A. ....	2	Scotch	15' 4"x11'	1600	Triple Exp. ....	23½ - 38 - 63 x 42	1917	
Thompson, David P. ....	2	Scotch	16' x12'	1900	Triple Exp. ....	24 - 38 - 65 x 42	1907	
Thompson, Smith .....	2	Scotch	12' 6"x12'	1250	Quad. Exp. ....	16½ - 24 - 35 - 50 x 42	1907	
Thorold (Can.) .....	2	Scotch	11' 6"x13'		Triple Exp. ....	16 - 27 - 44 x 30	1922	
Thunder Bay Quarries ..	2	Water Tube	Heat Sur. 10610 sq. ft.	2500	Skinner Unaflo	5 Cyl. 25½ x 26	1907	
Tomlinson, G. A. ....	2	Scotch	14' 6"x11' 6"	1800	Triple Exp. ....	23½ - 38 - 63 x 42	1909	
Toronto (Can.) .....	4	Scotch	11' x11' 6"		Inclined Triple Exp.	28 - 44 - 74 x 72	1899	
Townsend, Edw. Y. ....	2	Water Tube		2100	Triple Exp. ....	24 - 39 - 65 x 42	1946	
Townsend, Paul H., M. V.				1700	Diesel	6 Cyl.	1945	
Transbay (Can.) .....							1912	
Transfer .....	4	Fire Box	12' x16'		2 Horiz. Cond.		28 x 48	1917
Transford II .....	2	Water Tube			Triple Twin Screw	11 - 18 - 29 x 20	1920	
Transinland, M. V. (Can.)	1	Donkey	5' 3" x9'	950	3 Diesel Electric			1926
Transiter (Can.) .....								1935
Translake (Can.) .....	2	Scotch	9' 8"x11' 6"		2 Triple Exp. ....	12 - 19½ - 31½ x 16½	1920	
Transriver (Can.) .....	2	Scotch	9' 8"x11' 6"		2 Triple Exp. ....	12 - 20 - 31½ x 16½	1920	
Transtream (Can.) .....					2 Oil Eng., 4 Cyl. ....	19½ x 16½	1935	
Traverse City Socony ..					Oil Eng., 6 Cyl. ....	16 x 22	1938	
Trevisa (Can.) .....	2	Scotch	12' 6"x11' 6"		Triple Exp. ....	16 - 26 - 44 x 33	1915	
Trillium (Can.) .....	2	Scotch	16' x11' 6"		Inclined Comp. ....	17 - 34 x 48	1912	
Trimble, Richard .....	2	Water Tube	Heat. Sur. 4908 sq. ft.	1800	Triple Exp. ....	24 - 39 - 65 x 42	1946	
Troisdod (Can.) .....	2	Scotch	10' 3"x11'		Triple Exp. ....	15 - 25 - 40 x 33	1929	
United States Gypsum ..	2	Scotch	15' x12'	1765	Triple Exp. ....	23 - 37 - 63 x 42	1910	
Upson, Andrew S. ....	2	Scotch	14' 6"x11' 6"	1440	Triple Exp. ....	23 - 33 - 63 x 42	1909	
Upson, J. E. ....	2	Water Tube	Oil F. H. Sur. 4585 Sq. Ft.				1952	
Vacationland .....				9300	4 Diesels		1952	
Valley Camp (Can.) .....	2	Scotch	10' 6"x12' 6"		Triple Exp. ....	17 - 23 - 43 x 30	1927	
Vandoc (Can.) .....	3	Scotch	12' x10' 6"		Quad. Exp. ....	20¼ - 30¼ - 44 - 63½ x 42	1898	
Venus .....	2	Scotch	13' 2"x11' 6"	1480	Triple Exp. ....	22 - 35 - 58 x 40	1901	
Verona .....	2	Scotch	14' 6"x11' 6"	1600	Triple Exp. ....	22½ - 36 - 60 x 42	1907	
Victoria .....				300			1917	
Victorious (Can.) .....	2	Scotch	13' 6"x11' 6"		Triple Exp. ....	22 - 38 - 63 x 40	1912	
Viking .....	1	Scotch	13' 2"x12'		F. & A. ....	23 - 48 x 42	1916	
Virginia .....	2	Scotch	13' 2"x10' 4"		Triple Exp. ....	18 - 29 - 48 x 30	1962	





Dear Captain,—

Help us make a dream come true. We are working towards the creation of a **GREAT LAKES MARINE MUSEUM**,—a big, magnificent, educational historical museum, as a memorial for Great Lakes Sailors and to commemorate the Centennial of the Locks in 1955.

There is nothing of the kind in existence at present. Ship models,—authentic, picturesque, all the multitude of sailing lore from the Indian freighter canoes to the newest big fellows, something to keep forever the whole story of our growth and development as a nation, all dependent on the ships and men who sailed them.

How can you help? Write us and tell us you are in favor of the idea. Talk it up wherever you go. Tell your mates and Chief Engineer, your Steward, your friends about it. We need your help. You are invited to join the Museum as a Charter Member, too. That will put you on our mailing list and keep you informed as to our progress. Send Two Dollars if you care to join us. We welcome you,

Sincerely,

JAMES ROBERTSON, President

**CHIPPEWA COUNTY HISTORICAL SOCIETY INC.**

**Sault Sainte Marie, Michigan**

This advertisement sponsored by Robertson's Laundry because of tremendous interest in Great Lakes Ships

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# BOILERS AND ENGINES OF LAKE VESSELS

271

BOILERS AND ENGINES OF LAKE VESSELS									271
VESSEL	BOILERS				Horse Power	ENGINES			Year
	No.	Type	Size			Type	Cylinder and Stroke		
Windsor	6	Scotch	13' 9"x11' 6"		5200	Vert. & Comp.	3 - 24 - 36 - 36 x 36		1930
Winnipeg (Can.)	2	Scotch	13' 6"x11'			Triple Exp.	18 - 30 - 50 x 36		1926
Wolf, William H.	2	Scotch	13' 9"x11' 6"		1600	Triple Exp.	22½ - 36 - 60 x 42		1908
Wolverine	2	Scotch	14' 6"x11' 6"		2000	Triple Exp.	23 - 41 - 66 x 42		1908
Wolvin, Augustus B.	2	Water Tube			2000	Quad. Exp.	18½ - 28½ - 43½ - 66 x 42		1938
Wood, Joseph	2	Scotch	14' 6"x11' 6"		1760	Triple Exp.	23½ - 38 - 63 x 42		1910
Wyandotte	2	Scotch	12' x11' 4"		1100	Triple Exp.	18 - 31 - 50 x 36		1908
Yankcannuck (Can.)	2	Scotch	12' x11'			Triple Exp.	20 - 32 - 54 - 42		1920
Yates, Harry	2	Scotch	13' 9"x11' 6"		1550	Triple Exp.	22½ - 36 - 60 x 42		1909
Yosemite	2	Scotch	11' 6"x11' 6"		928	Triple Exp.	18 - 29 - 48 x 40		1901
Young, Colonel E. M.	3	Scotch	11' 6"x11' 6"		2000	Quad. Exp.	18 - 27 - 47 - 63 x 42		1911
Youngstown	3	Scotch	13' 6"x11'		2300	Triple Exp.	24½ - 41 - 65 x 42		1926
Zeising, August	3	Scotch	13' 6"x11'		2200	Triple Exp.	24½ - 40 - 65 x 42		1917

## STOKER FIRED VESSELS

Armstrong, Frank	Emery, John R.	Mather, Samuel	Roberts, Percival, Jr.
Avery, Sewell	Fairless, Benjamin F.	McCullough, C. H., Jr.	Robinson, T. W.
Ayers, J. Burton	Farrell, James A.	Mills, D. O.	Rogers, Henry H.
Baker, Geo. F.	Ferbert, A. H.	Morgan, J. Pierpont	Schiller, William B.
Bethlehem	Frantz, Joseph H.	Morgan, J. P., Jr.	Schoellkopf, J. F., Jr.
Bradley, Carl D.	Fraser, Leon	Morrell, D. J.	Sensibar, J. R.
Brown, Harvey H.	Frick, Henry C.	Morse, Jay C.	Sheadle, J. H.
Buffington, Eugene J.	Grace, E. G.	Munson, John G.	Sloan, George A.
Cadillac	Grey, E. H.	Nettleton	Stanley, Robt. C.
Calcite	Governor, Miller	Norway	Steelton
Cambria	Hanna, L. C.	Oglesbay, Crispin	Sullivan, J. J.
Champlain	Hebard, Chas. S.	Olcott, William J.	Sumatra
Chisholm, Alex D.	Hillman, J. J.	Olds, Irving S.	Taylor, B. H.
City of Flint	Hulst, John	Palmer, William P.	Thunder Bay Quarries
City of Midland	Hutchinson, John T.	Pathfinder	Townsend
City of Saginaw	Irvin, William	Pere Marquette No. 21	Trimble, Richard
Clymer, Irvin L.	John, J. B.	Phipps, Henry	Voorhees, Enders M.
Cole, Thomas F.	Jones, B. F.	Pickands, Colonel James	Wallace, Robt.
Conway, Carl C.	Kerr, D. G.	Purnell, Frank	Watson, Ralph H.
Corey, Wm. E.	Laukwanna	Randall, Clarence B.	Wilkinson, Horace S.
Coulby, Harry	Laughlin, James	Ream, Norman B.	Way, S. B.
Dalton, Henry	Lebanon	Reiss Brothers	White, W. F.
Dickson, William B.	Lehigh	Reiss, Peter	Widener, Peter A. B.
Dinkey, Alva C.	Lynch, Thomas	Reiss, Richard J.	Wilson, Thomas
Duocher, T. L.	Maryland	Reiss, William A.	Youngstown



How can you help? Write us and tell us you are in favor of the idea. Talk it up wherever you go. Tell your mates and Chief Engineer, your Steward, your friends about it. We need your help. You are invited to join the Museum as a Charter Member, too. That will put you on our mailing list and keep you informed as to our progress. Send Two Dollars if you care to join us. We welcome you,

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271

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	No.	Type	Size	Type		Cylinder and Stroke				
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Winnipeg (Can.)	2	Scotch	13' 6"x11'		Triple Exp.	18 - 30 - 50 x 36	1926			
Wolf, William H.	2	Scotch	13' 9"x11' 6"	1600	Triple Exp.	22½ - 36 - 60 x 42	1908			
Wolverine	2	Scotch	14' 6"x11' 6"	2000	Triple Exp.	23 - 41 - 66 x 42	1908			
Wolvin, Augustus B.	2	Water Tube		2000	Quad. Exp.	18½ - 28½ - 43½ - 66 x 42	1938			
Wood, Joseph	2	Scotch	14' 6"x11' 6"	1760	Triple Exp.	23½ - 38 - 63 x 42	1910			
Wyandotte	2	Scotch	12' x11' 4"	1100	Triple Exp.	18 - 31 - 50 x 36	1908			
Yankcannuck (Can.)	2	Scotch	12' x11'		Triple Exp.	20 - 32 - 54 - 42	1920			
Yates, Harry	2	Scotch	13' 9"x11' 6"	1550	Triple Exp.	22½ - 36 - 60 x 42	1909			
Yosemite	2	Scotch	11' 6"x11' 6"	928	Triple Exp.	18 - 29 - 48 x 40	1901			
Young, Colonel E. M.	3	Scotch	11' 6"x11' 6"	2000	Quad. Exp.	18 - 27 - 47 - 63 x 42	1911			
Youngstown	3	Scotch	13' 6"x11'	2300	Triple Exp.	24½ - 41 - 65 x 42	1926			
Zeising, August	3	Scotch	13' 6"x11'	2200	Triple Exp.	24½ - 40 - 65 x 42	1917			

## STOKER FIRED VESSELS

Armstrong, Frank	Emery, John R.	Mather, Samuel	Roberts, Percival, Jr.
Avery, Sewell	Fairless, Benjamin F.	McCullough, C. H., Jr.	Robinson, T. W.
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Baker, Geo. F.	Ferbert, A. H.	Morgan, J. Pierpont	Schiller, William B.
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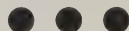
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WALKERVILLE & DETROIT FERRY CO., Foot Campau St.,  
Detroit, Michigan.

Str. Halcyon	Str. Wayne
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WATERWAYS NAVIGATION CO., 1203 Ford Bldg., Detroit, Mich.  
Str. Caulkins, Ralph S.

WEDDELL, ROB. G., Division St., Trenton, Ont.  
Tug Aurelia                      Tug Weddell, R. G.

WELLS CONSTRUCTION CO., Schofield Bldg., E. 9th & Euclid,  
Cleveland, Ohio.

Bge. Kelley, Norman	Scow Wellston
Bge. Pellett, J. H.	Scow Wawasee
Tug Red Crown	Tug J. R. Spankle
Tug Stella B.	Tug North Harbor

WILSON TRANSIT CO., 930 Rockefeller Bldg., 600 Superior Ave.  
N. W., Cleveland, Ohio.

Str. Hebard, Chas. S.	Str. Paul, Charles A.
Str. Ireland, R. L.	Str. Taplin, Frank E.
Str. Kendrick, Edward S.	Str. Upson, J. E.
Str. Kinney, A. T.	Str. Wallace, R. B.
Str. Kulas, E. J.	Str. Wilson, Thomas
Str. MacNaughton, James	

WISCONSIN & MICHIGAN STEAMSHIP CO., 350 N. Plankton-  
ton Ave., Milwaukee, Wis.

Str. Highway 16	Str. Milwaukee Clipper
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WOLFE ISLAND MUNICIPALITY, Wolfe Island, Ont.

Str. Wolfe Islander

WYANDOTTE TRANSPORTATION CO., Biddle Ave, Wyandott,  
Mich.; 1622 Ford Bldg., Detroit 26, Mich.

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Str. Conneaut	Str. Wyandotte

YANKCANNUCK TRANSPORTATION CO., LTD., Capt. F.  
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AND

## DRY DOCK CO.

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Pipefitting — Sheet Metal Work — Machine  
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Sturgeon Bay, Wisconsin

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Steel Pontoon equipped with 100-ton shear legs and 1-ton revolving crane.

The following are subsidiary's of Great Lakes Towing Co.

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LIGHTER RELIANCE, 3000 tons capacity. Equipped with traveling crane, air compressors, pumps and syphons. Telephone Vinewood 16260.

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#### EQUIPMENT

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Equipped with 30-ton steam revolving crane and clam shell buckets; towing machine with 1200 feet cable; air compressors, divers and full diving apparatus, machine shops; blacksmith shop; carpenter shop; acetylene cutting; underwater burning; electric welding; portable pumps; syphons; hydraulic jacks, and other equipment essential for wrecking service.

LIGHTER RELIANCE, 2000 Tons Capacity. Equipped with towing machine, traveling crane, air compressors, pumps and syphons. One steel wheel scow, especially fitted to span streamline rudders. Two steel tugs also available.  
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The Great Lakes Towing Company have Tugs stationed at all the prominent harbors on the Great Lakes, which are available for wrecking purposes.

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Diesel Tugs

"Atomic" 80 x 21 x 11 - 600 H. P.

"Patricia McQueen" 75 x 17 x 8 - 250 H. P.

Steam Tugs

"H. Stokes" 75 x 16 x 8 - 12 x 24 x 16.

First class divers and latest equipment.

Several pumps, all sizes 2" to 12".

Three lighters. "Malden", "Commander" and "Newman".

ROEN STEAMSHIP COMPANY, Towing, Freighting, Salvaging,  
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Tug "JOHN ROEN IV" 2000 H. P. 1800' Cable 2" diameter.

Tug "JOHN ROEN III" 1000 H. P. 1200' Cable 1½" diameter.

Tug "JOHN ROEN" 650 H. P. 1200' Cable 1½" diameter.

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MAITLAND 350' x 56' x 18.3'. Capacity, 3600 net tons.

RESOLUTE 350' x 44' x 22' Capacity 6500 net tons.

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CHIEF," 650 I. H. P. each.

"GRAEME STEWART" 1000 I. H. P.; equipped with 2 pulling  
machines of 100 tons, and 150 tons capacity and 4000' of 1½"  
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Lighter "INTERNATIONAL" with 35 ton derrick.

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# UNITED TOWING & SALVAGE COMPANY, LIMITED, Port Arthur, Ontario.

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November 11, 1949.

	Tug James Whalen	Tug Strathmore	Tug Jean Fraser
Length	108'	91'	75' 4"
Width	24'	20'	21' 5"
Depth	13'	12'	7' 6"
Gross Tonnage	313	161	99
Net Tonnage	156	74	5
Horse Power—Nominal	67	43	37.5
Horse Power—Indicated	900	450	350
Size of Towing Machine	14" x 14"	9" x 12"	
Size of Towing Cable	(1600 Feet 1 1/8"	(1000 Feet 7/8" Dia.)	

## Derrick Scow Great Western

Length	220'
Width	40' 2"
Depth	10'
Gross Tonnage	1072
Net Tonnage	973
100' Boom—3 Cu. Yd. Clamshell	
Carries load on deck—Capacity 1200 tons.	

## STEAMER PONOKA

(Converted Into Tow Barge)

Length	247'
Width	36'
Depth	17'
Gross Tonnage	1505
Net Tonnage	888

1 Long Hatch—136' x 19' x 2' 6" High Coamings  
Equipped with 15 ton Browning Hoist on rails.  
Capacity 1800 tons.

## BARGE COTEAU

Length	162'
Depth	11' (in hold)
Width	27'
Gross Tonnage	446
Net Tonnage	411
5 Hatches	
No Crane	
Capacity 900 Tons	

## Pumps, Etc.

- 3—12" Rotary Steam Pumps
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- 1—12" Centrifugal Steam Pump
- 1—6" Centrifugal Steam Pump
- 1—Air Pump—Capacity 2500 cu. ft. per min.
- 1—Air Pump—Capacity 900 cu. ft. per min.
- 1—Diving Outfit, Complete.

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Office—Port Arthur North 159  
W. E. Mutch, District Superintendent—Port Arthur North 711

UNITED TOWING & SALVAGE COMPANY, LIMITED, Sarnia, Ontario. Tel. 1365 Office. 24 hour service  
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TUG LACHINE, Length, 156 ft.; Beam 28 ft.; Depth, 10 ft. Engines: Twin screw Diesel developing 1,000 H. P. each. Equipped with electric towing machine carrying 2000 ft. of 1 1/2" cable.

TUG GUARDIAN, Length 134 ft.; Beam, 25 ft.; Depth, 13 ft. Engine Steam, single, developing 700 H. P. Equipped with steam towing machine carrying 1500 ft. of 1 1/8" cable.

## BARGE LONDONDERRY

Length, 206 ft.; Beam 40 ft.; Depth, 14 ft.; Cargo capacity 1800 tons; 3 compartments. Equipped with traveling McMyler type derrick for loading or discharging from any hatch and 100 tons pulling having 2000 ft. of 2 in. cable and large 6 ton anchor. Steam pumps from 4 in. to 18 in. suction. Hydraulic jacks. Diving gear. Underwater Oxy-Acetylene cutting equipment; and complete salvage gear carried on board.

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 Zenith Furnace Coal Dock 0  
 Ford Coal Dock. (Hanna) 314  
 Inland Coal Dock. 318  
 Boston Coal Dock. 315  
 Carnegie Coal Dock. 0  
 Berwind Coal Dock. 270  
 Misseabe Ore Dock No. 6. 316  
 Misseabe Ore Dock No. 5. 316  
 Misseabe Stone Dock. 312  
 Misseabe Coal Dock. 228  
 Peavey Elevators. 244  
 Capital Elevator Slip. 244½  
 Northwestern Fuel Coal Dock No. 4. 243°  
 Clarkson Coal Dock, 244  
 Northern Pacific Wharf Elevator. 38°  
 Pittsburgh Coal Co. 242

**Two Harbors, Minn.**

Ore Dock No. 1 298  
 Ore Dock No. 2 298  
 Ore Dock No. 6 294  
 Coal Dock. 335½

**Superior, Wis.**

North Brk. and N-Pierhead 233 in and 53 out  
 North Brk. and S-Pierhead 217 in and 37 out.  
 S. - Brk. and N-Pierhead 252 in and 72 out.  
 All Great Northern Ore Docks 181  
 Northern Pacific Ore Docks 218  
 Pittsburgh Coal Dock. 180  
 Elevators and Flour Mill Slips 229½  
 Superior Dry Dock No. 1 155  
 Superior Dry Dock No. 2 154½  
 Superior Ship Bldg. Co's. Slips 220  
 N. W. Fuel Co. 180  
 Standard Oil Co's. Slip 180  
 Great Lakes Coal and Dock Co. 180  
 G. N. Ry. Warehouse Slip 180  
 Hanna Coal Dock, North Western Fuel Dock, Northern Coal Dock and  
 Philadelphia & Reading Coal Docks. 315½  
 Tower Slip 200

Berwind Fuel Co. 180  
 Reiss Coal Co. 180

**Ashland, Wis.**

Reiss Coal Dock. 141  
 Pittsburgh Ashland Coal & Dock Co. 147  
 Clarkson Coal Dock. 151  
 Chicago North Western Ore Docks. 136  
 M. St. P. & S.-Ste. M. Ore Dock. 147  
 Soo Line Ore Dock. 147

**Marquette, Mich.**

Ore Dock No. 5 289  
 Coal Dock 283  
 Presque Isle Ore Dock. 319

**Fort William and Port Arthur**

Empire Elevator Wharf. 69  
 C. P. Ry. Coal Plant 70  
 C. P. Elevators Slips in Mission Channel 290  
 C. N. Slips No. 1-2 and 3 at Port Arthur Main Harbor Center all 303  
 C. P. Ry. Sheds 62  
 C. P. Elevators. 46  
 Port Arthur Ore Dock 90°

**LAKE ERIE PORTS HEADINGS****Toledo, Ohio**

Toledo Ship-Building Slips 135 Dry Dock Slip 173  
 Interlake Iron Corp., Dock 228 and 48  
 Hocking Valley Slips 153  
 Penn. Dock on North Side 236 and 56  
 Toledo Marine Terminals, Inc., outside face 196  
 N. Y. Central Slip 206  
 B. & O. Elevator Dock 197

**Sandusky, Ohio**

B. & O. R. R. Coal Docks 156  
 C. C. C. & St. L. R. Slip 172  
 C. S. & H.R. R. Co's. Slip 157½  
 Wehrle Coal Co. 177  
 Coal Dock No. 3 14

**Lorain, Ohio**

B. & O. Ore Dock 119 in and 299 out  
 McMyler Coal Dock No. 102 in and 282 out

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Groceries, Meats and General Ship Supplies

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 Dry Dock No. 2 117  
 Ore Dock at Turning Basin 62

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Anchor Line Slips 145  
 Penn. Ore Dock outside 54 and 234  
 Penn Ore Dock inside West Slip, 19 East Slip 21  
 American Steel & Wire Co's. Ore Dock on East Side 163½ and 343½  
 Central Furnace Ore Docks 162 and 342  
 McKinney Steel Co's. Ore Dock W-Side 159 and 339  
 Cleveland Furnace Co's Dock 216  
 Passenger Boat Slips at East 9th St. 145  
 W. & L. E. R. R. Coal Dock 161 and 341

#### Fairport, Ohio

Ore Lock at Mouth of River 176½ further in 179  
 Pa. & L. E. Dock Co. 199.  
 Coal Dock 131  
 Diamond Alkali Co. Dock 162 and 151  
 Elevator Dock 162

#### Ashtabula, Ohio

Superior Ore Dock 182  
 Ashtabula & Buffalo Dock 180  
 Lower Lake Dock 179  
 N. Y. C. R. R. Slip 180 in and 0 out  
 Pittsburgh Coal Co's. Dock W- Side 179 in and 359 out  
 Jones Laughlin Dock 180 in and 0 out  
 O. & W. Pa. Dock Co's. Dock No. 2 runs 19 out and 199 in  
 No. 3 Dock 199 out and 19 in  
 Pennsylvania Co's. Dock No. 5 (Inner end) 201 in and 21 out  
 Same Dock No. 5 (outer end) 30 out and 210 in  
 N. Y. C. R. R. Dock face 199 in and 19 out

#### Conneaut, Ohio

Ore Dock No. 1 171  
 Ore Dock No. 2 171  
 Ore Dock No. 3 171  
 Ore Dock No. 4 174

#### Erie, Pa.

Range for entering 242 and 62  
 Inner range over stern 235 and 55 ahead  
 Ore Dock, Coal and Pulpwood and Flour Docks all 154 headings in

#### Buffalo, N. Y.

D. L. & W. Coal Dock face at mouth of river 93 in and 273 out  
 Penn. R. R. Dock in City Ship Canal 146 and 326  
 Ore Dock in City Ship Canal 155 and 335  
 Buffalo Union Furnace Co. Dock 180 and 0  
 Ohio Basin 14 and 194  
 Lehigh Valley Basins Ore and Coal Docks 159½ and 339½  
 Export Elevator Dock 159 and 331  
 Kellogg Elevator Slip 247  
 Dakota, Frontier, Washburn and Crosby Elevator Dock faces 145  
 Concrete Central Elevator 336 and 156  
 Marine Elevator Slip 247°  
 Buffalo Dry Dock Slip 208  
 Exchange Elevator Slip No. 1 60 Coit Slip 60  
 Evans Elevator Slip 16  
 Black Rock Lock 135  
 Wickwire Steel Co. 181  
 Lake & Rail (before turn) 105°  
 Lake & Rail (after turn) 196°

#### Tonawanda, N. Y.

American Radiator Dock or Tonawanda Iron Co., 163.

### DOCK HEADINGS ON LAKE MICHIGAN

#### Gary, Indiana

Docks in 181

#### Indiana Harbor

Canal and Dock 226 and 46

#### So. Chicago

Illinois Steel Co. North Slip 270 and 90  
 Illinois Steel Co. South Slip 340 in  
 Howard Slip 268 in  
 South Chicago Dock Co's. all slips 270 in but No. 5 which is 310  
 Lehigh Valley Coal Slip 270 in  
 Chicago Shipbuilding Co's. Slips 90 in  
 Semet Solvay Slip 270 in  
 So. Chicago Furnace Slip 270 in  
 Elevator Dock at 106th St. 216 in and 36 out

#### Milwaukee, Wis.

P. C. & S. Coal Dock at Harbor's Entrance 224 and 44  
 Milwaukee Western Fuel Co's. Slips at Greenfield Ave. 270 and 90  
 Face of Dock 145 and 325



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## MARINE WORK

Taken care of every day in the week and night.  
Save us a wash when you come to the Twin Ports.

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 Milwaukee Solway Coke Co., Dock 200 and 20  
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 C. & N. W. Ry. Dock West Side of river 326 and 146  
 Elevator Dock at Broadway Bridge 320 and 140  
 St. Paul R. R. Dock W. of Reed St. Bridge 272 and 92  
 East end of same Dock 115 and 295  
 Gas Co's. 25th St. Dock 271 and 91  
 Milwaukee Western 16th St. Docks 270 and 90  
 Penn. Coal Co. 13th St. Dock 286½ and 106½  
 Milwaukee Western Cherry St. Dock 43  
 S. end of this same Dock 55  
 Western Fuel Co's. Dock above Holton St. Viaduct 48  
 Grand Trunk Carferry Slip 321  
 Gallaway Fuel Co's. Dock 38  
 P. M. Slip N-side 85; South side 113  
 Jones Island Dock W-side 155 and 335  
 Automobile Dock 147 and 327  
 United Coal & Dock Co's. Slip 181

**Sheboygan, Wis.**

Reiss Coal Dock N-end 190½ in and 10½ out  
 Lower end of same dock 221

**Manitowoc, Wis.**

Carferry Slip at Lake Front 13½  
 Reiss Coal Dock at Lake front 193 and 13  
 Cheese Dock 268 and 88  
 Goodrich Dock, outer end 90 and 270  
 Inner end of same dock 277 and 97  
 Elevator Dock 320 and 140  
 Dock at Boiler Works 276 and 96  
 Wisconsin Central Ferry Slip 152  
 Shipyard Dock S of Dry Dock 28 and 208  
 Dock face at right angles to the above 311 and 131  
 Shipyard Dock above R. R. bridge 98 and 278  
 Bartlett Frazer's Dock 107 and 287  
 Cement Dock 226 and 46  
 St. Paul Freight Dock 140 and 320

**Menominee**

Car ferry slip 146

**Kewaunee**

Car ferry slip 195

**Escanaba**

St. Paul Ry. Ore Docks 265 and 85  
 St. Paul Coal Dock 265 and 85  
 NW Ry. Ore Docks No. 5 and 6 265 and 85  
 Reiss Coal Dock 271  
 NW Ry. Ore Dock No. 3 272  
 NW Ry. Ore Dock No. 4 271  
 NW Ry. Ore Dock No. 2 inner end 273  
 Outer end of same Dock 278

**Ludington**

P. M. Carferry N-Slip 256  
 P. M. Carferry S-Slip 301

**Frankfort**

Carferry East Slip 292  
 Carferry West Slip 291

**Grand Haven**

Goodrich Dock 17 and 197  
 Grand Trunk Dock 21 and 201  
 Carferry Slip 241

**Racine**

Paughs Coal Dock 267 and 87  
 Dock West of Faughs Coal Dock 287 and 107

**Green Bay City**

Standard Oil Dock Co's. Dock 186 and 6  
 Reiss Coal Dock 200 and 20  
 Hurlbut Coal Dock 231 and 51  
 C. M. & St. Paul Ry. Coal Dock 199 and 19  
 Barkhausen Coal Dock 295

**SOO LOCKS**

Third and Fourth Locks 85 and 265  
 Poe Locks 85 and 265  
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Calcite Slip and Loading Dock 237 ½° and 57 ½°  
 Alpena Cement Dock Slip 320

**Goderich, Ont.**

Goderich range 89½ and 269½  
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 1st Elevator Dock 64  
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Also Canvas Covers for life boats and  
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**ALBANY, N. Y.****Cargill Elevator Co.—**

Located on the Hudson River.  
 Storage capacity, 13,500,000 Bu.  
 Number of Marine Elevator Legs, 8  
 Capacity of each leg, 3,000 Bu.  
 Number of Marine Loading Spouts, 4.  
 Capacity per hour of Loading Spouts, 100,000 Bu.  
 Depth of water at dock, 29 feet.  
 Can handle any size vessel.  
 Loading capacity to cars per 10 hours, 1,000,000 Bu.  
 Supt.—M. Marshall

**BUFFALO, N. Y.****American—**

American Elevator & Warehouse Co., G. W. Martin, Mgr.  
 Foot of Childs St.  
 Marine Elevating Legs, 2.  
 Marine Loading Spouts, 2.  
 Capacity hour unloading, 36,000 Bu.  
 Number of Cars can load in 10 hours, 150.  
 Storage capacity, 3,500,000 Bu.  
 Depth of water at dock, 23 feet.  
 Can handle any size boat.  
 Clearance not available.  
 R. R. Conn.: Penn.  
 Supt.—Howard Gunnison.

**Canadian Pool Terminal—**

Outer Harbor Opposite South Entrance.  
 T. Richard O'Brian, Manager, 1504 Marine Trust Bldg., Buffalo, N. Y.  
 Storage capacity, 2,100,000 Bu.  
 Number of Marine Elevating Legs, 2.  
 Capacity per leg per hour, 30,000 Bu.  
 Marine Loading Spouts, 3.  
 Capacity per hour Loading Spouts, 35,000 Bu.  
 Car Loading Spouts, 4.  
 Car loading capacity, 45,000 Bu. per hour.  
 Number of cars can load in 10 hours, 240.  
 Depth of water at dock, 21 feet.  
 Can handle any size vessel.  
 Clearance both legs, 30 ft. 6 in., normal water level.

R. R. Conn.: Lehigh Valley.  
 Supt.—Ray Zimmerman.

**Connecting Terminal—**

The Connecting Terminal Elevator is now operated by the Connecting Terminal Elevator Corporation, Division of Harper Feed and Grain Company, 507 Chamber of Commerce Building, Buffalo, New York.  
 Telephone Mohawk 8515. Milton May, President; Elester Copeland, Manager; R. C. Oldham, Office Manager.

**Concrete-Central—**

Continental Grain Co.  
 Marine Trust Bldg., Buffalo  
 Marine Elevator Legs, 4.  
 Marine Loading Spouts, 4.  
 Capacity per Loading Spouts, 12,000 Bu.  
 Can work 3 legs in a boat at one time.  
 Capacity per hour unloading, 25,000 Bu. each  
 Number of cars can load in 10 hours, 200.  
 Storage capacity, 4,500,000 Bu.  
 Depth of water at dock, 23 feet.  
 Can handle any size boat.  
 Clearance all three legs, 30 feet from normal water level  
 R. R. Conn.: New York Central.  
 Supt.—Clarence Goetz.

**Frontier—**

Annex (Washburn-Crosby).  
 Storage capacity, 5,200,000 Bu.  
 Car Loading Spouts, 2.  
 Car loading capacity, 20,000 per hour.  
 Can handle any size boat.  
 Depth of water at dock, 21 feet.  
 R. R. Conn.: Buffalo Creek.  
 Supt.—C. Halstead.

**Dellwood—**

Archer Daniels Midland Co., Inc.  
 Marine Elevating Legs, 2.  
 Marine Loading Spouts, 2.  
 Capacity per hour unloading, 30,000 Bu. Both legs.  
 Storage capacity, 1,700,000 Bu.  
 Car Loading Spouts, 2.



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**REISS STEAMSHIP CO.**  
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**MARINE SCRAP IRON, METALS**  
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**Coffee Shop and Cocktail Lounge**  
**in Connection**  
**ANDY DORAN, Mgr.**

Car loading capacity, 32,000 per hour.  
 Depth of water at dock, 21 feet.  
 Can handle any size boat.  
 Clearance, Portable Leg, 30 feet } Normal water level.  
 Clearance, Stationary Leg, 26 feet }  
 R. R. Conn.: Penn. R. R., Buffalo Creek.  
 Supt.—A. C. Murray.

**Electric—**

Cargill, Inc., Operators.  
 Chamber of Commerce Bldg.  
 Marine Elevating Legs, 2.  
 Marine Loading Spouts, 2.  
 Capacity per hour unloading, 20,000 Bu.  
 Can load in 10 hours, 150 cars.  
 Storage capacity, 8,000,000 Bu.  
 Depth of water at dock, 21 feet.  
 Can handle any size boat.  
 Clearance both legs, 30 feet, normal water level.  
 R. R. Conn.: Penn. R. R., Buffalo Creek.  
 Supt.—Earl Hoople.

**Frontier—(Washburn-Crosby)—**

General Mills Inc., Owner, Marine Trust Bldg.  
 Marine Elevating Legs, 2.  
 Capacity per hour unloading, 25,000 Bu. each.  
 Storage capacity 4,750,000 Bu.  
 Capacity Loading Spouts, 20,000 Bu. Per hour.  
 Depth of water at dock, 21 feet.  
 Can handle any size boat.  
 Clearance, 29 feet, normal water level.  
 R. R. Conn.: Buffalo Creek.  
 Supt.—C. Halstead.

**Great Eastern—**

Cargill, Inc., operators.  
 Chamber of Commerce Bldg.  
 Marine Elevating Legs, 2.  
 Capacity per hour, 24,000 Bu.  
 Marine Loading Spouts, 2.  
 Capacity per hour unloading, 25,000 Bu.  
 Storage capacity 2,225,000 Bu.  
 Car Loading Spouts, 2.

Car loading capacity per hour, 22,000.  
 Can handle any length boat.  
 Depth of water at dock, 23 feet.  
 R. R. Conn.: Buffalo Creek.  
 Supt.—Chas. L. Hoffman.

**Kellogg—(Michigan St.)**

Kellogg Grain & Elevator.  
 Chamber of Commerce Bldg.  
 Minneapolis, Minnesota.  
 Marine Elevating Legs, 2.  
 Capacity per hour unloading, 20,000 Bu.  
 Marine Loading Spouts, 4.  
 Capacity, 20,000 Bu.  
 Storage capacity, 1,200,000 Bu.  
 Depth of water at dock, 20 feet.  
 Can unload any boat up to 504-foot length by 56-foot beam  
 R. R. Conn.: Buffalo Creek.  
 Supt.—Wm. Mackay.

**Lake and Rail**

International Milling Co., Operators.  
 Marine Elevating Legs, 2.  
 Capacity per hour, 25,000 Bu. each leg.  
 Marine Loading Spouts, 6.  
 Capacity per hour of Loading Spouts, 40,000 Bu.  
 Car Loading Spouts, 4.  
 Capacity car Loading Spouts, 150 cars, 10 hours  
 Storage capacity, 4,800,000 Bu.  
 Depth of water at dock, 21 feet.  
 Can handle any size boat.  
 Clearance both legs, 30 feet, normal water level.  
 R. R. Conn.: Penna. R. R.

**Marine Elevator "A"—**

Foot of Childs Street.  
 Marine Elevator Co., Pres., E. J. Nolan, 637 Chamber of Commerce Bldg.  
 Marine Elevator Legs, 2.  
 Capacity per hour Elevating Legs, 30,000 Bu. each.  
 Marine Loading Spouts, 2—Capacity, 40,000 Bu. each per hour.  
 Storage capacity, 2,200,000.  
 Depth of water at dock, 21 feet.

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Maximum length of boat, unlimited.  
 Clearance both legs, 33 feet, normal water level.  
 R. R. Conn.: Penna. and Buffalo Creek.  
 Supt.—Roderick J. MacRae.

#### **Monarch—**

The Monarch Elevator is no longer in operation and is expected to be dismantled sometime during this year.

#### **Mutual—(Pillsbury)**

Pillsbury Flour Mills, Lafayette Bldg.  
 Marine Elevating Legs, 3.  
 Marine Loading Spouts, 1.  
 Capacity per hour unloading, 25,000 Bu. with Two Legs.  
 Can load 50 cars in 10 hours.  
 Storage capacity, 2,700,000 Bu.  
 • Depth of water at dock, 23 feet.  
 Can handle any length boat.  
 Clearance not available.  
 R. R. Conn.: Buffalo Creek.  
 Supt.—James O. Burns.

#### **Standard Milling Co.—**

Standard Milling Co. Operator, Marine Trust Bldg.  
 Storage capacity, 5,000,000 Bu.  
 Marine Unloading Legs, 2.  
 Capacity per hour, 20,000 Bu. each.  
 Can load 150 cars in 10 hours.  
 Depth of water at dock, 24 feet.  
 Clearance both legs, 30 feet, normal water level.  
 R. R. Conn.: Erie.  
 Can handle any length boat.  
 R. R. Conn.: Buffalo Creek Ry.  
 Manager, John F. Gerard.  
 Supt.—John Mack.

#### **Superior**

Cargill, Inc., Operators.  
 Chamber of Commerce Bldg.  
 Marine Elevating Legs, 3.  
 Capacity per hour unloading, 2 legs, 25,000 Bu. each leg.  
 Capacity per hour unloading, 1 leg, 30,000 Bu.  
 Storage capacity, 3,700,000 Bu.

Car loading spouts, 4.  
 Car loading capacity, 52,000 Bu. per hour.  
 Marine Loading Spouts, 2.  
 Capacity Marine Loading Spouts, 35,000 per hour.  
 Depth of water at dock, 23 feet.  
 R. R. Conn.: All lines through Buffalo Creek.  
 Clearance both legs, 30 feet, normal water level.  
 Equipped for drying, cleaning, bleaching, clipping and bagging.  
 Supt.—H. K. Vantine.

#### **G. L. F. (Wheeler)**

Co-operative G. L. F. Exchange Inc., Chamber of Commerce Bldg.  
 Marine Elevating Legs, 1.  
 Marine Loading Spouts, 1.  
 Capacity per hour unloading, 12,000 Bu.  
 Storage capacity, 1,000,000 Bu.  
 Depth of water at dock, 23 feet.  
 Can handle any length boat.  
 Clearance not available.  
 R. R. Conn.: Buffalo Creek.  
 Supt.—John J. Kitching.

#### **CHICAGO, ILL.**

#### **Central "A"—Phone 6259—**

Located at Michigan Ave. on south side of river.  
 Operated by Norris Grain Co., Board of Trade Bldg.  
 Storage capacity, 750,000 Bu.  
 Marine Loading Spouts, 2.  
 Capacity of Loading Spouts, 30,000 Bu. per hour.  
 Depth of water at dock, 20 feet.  
 Can handle any size vessel.  
 R. R. Conn.: Illinois Central.  
 Supt.—John Showcraft.  
 Mgr.—Howard Lipsey; Phone Wabash 4934.

#### **National—**

Tel. Victory 2353.  
 South Branch 24th St. and Halstead.  
 F. R. Gerstenberg, Grain.  
 Marine Loading Spouts, 5.  
 Capacity per hour loading, 4,000.  
 Storage capacity, 850,000.



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Depth of water at dock, 17 feet 6 inches.  
Maximum length of ships, 375 feet.  
Supt.—Felix Schwander; Tel. Brigade 8240.

**Santa Fe—**

Tel. LaFayette 6141.  
South Branch—Winchester & 28th St  
Santa Fe Elevator Corp., Board of Trade Bldg.  
Storage capacity, 1,750,000 Bu.  
Marine Loading Spouts, 3.  
Capacity per hour, 20,000 Bu. each.  
Marine Elevating Leg, 1.  
Capacity per hour, 7,500 Bu.  
Maximum length of vessel can load, 500 feet.  
Maximum length of vessel that can unload, 450 feet x 54.

**Wabash—**

Tel. LaFayette 6633.  
Norris Grain Co.  
Marine Loading Spouts, 10.  
Capacity per hour Loading Spouts, 50,000 Bu.  
Storage capacity 1,500,000 Bu.  
Depth of water at dock, 17 feet 6 inches.  
Can handle 450-foot boat, 54-foot beam.  
R. R. Conn.: All.  
Supt.—Albert Lippert.

**Wright & Hill's—**

22nd St. W. Side River, South Branch.  
Spencer-Kellogg Co.  
Marine Elevating Legs, 1.  
Capacity per hour flax, 6,000 Bu.  
Storage capacity, 900,000 Bu.  
Capacity Loading Spouts per hour, 10,000 Bu.  
Depth of water, 18 feet.  
Number of marine Loading Spouts, 1.  
Capacity per hour Marine Loading Spouts, 18,000.  
Maximum length of vessel, 360 feet.  
Mgr.—J. S. Williams.  
Supt.—H. E. Fralick.

**CLEVELAND, OHIO****Sherwin-Williams—**

Above Central Viaduct.

Marine Elevating Legs, 1.  
Capacity per hour, 5,000 Bu.  
Storage capacity, 400,000 Bu.  
Depth of water at dock, 15½ to 19 feet.  
Maximum length of boat, 425 feet with 50-foot beam.  
Supt.—A. Spanur, Jr.

**Montana Flour Mills Co.—**

Phone Main 1-1733.  
Located under Superior High Level Bridge.  
O. L. Spencer, Mgr.  
Marine Elevating Legs, 1.  
Capacity per hour, 4,000 Bu.  
Storage capacity, 650,000 Bu.  
Depth of water at dock, 16 to 18 feet.  
Depth of water in channel, 21 feet.  
Maximum length of boat can be handled, 500 feet, beam 52 feet.  
R. R. Conn.: Big 4.  
Supt.—M. B. Burkey.  
Mgr.—A. L. Spencer.

**COLLINGWOOD, ONT.****Collingwood Terminal—**

Collingwood Terminal, Ltd.; N. D. Broadway, Mgr.; C. P. R. Bldg.,  
Toronto, Ont.  
Number of Marine Elevating Legs, 1.  
Capacity per hour unloading, 30,000 Bu.  
Storage capacity, 2,000,000 Bu.  
Can handle any size boat.  
Depth of water at dock, 22 feet.  
Loading capacity to cars, 15 per hour.  
R. R. Conn.: Canadian National Ry.  
Winter moorings, 6-8 vessels, depending on size.

**DETROIT, MICH.****Commercial Milling (Henkel Elevator)—**

Foot of Randolph St.  
Commercial Milling Co.  
Marine Elevating Legs, 1.  
Capacity per hour unloading, 25,000 Bu.  
Storage capacity, 1,500,000 Bu.  
Depth of water at dock, 22 feet.  
Can handle any size boat.

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R. R. Conn.: G. T.  
Supt.—Frank Adams.

### DULUTH, MINN.

#### Capital 4 and 5—

Located at Rices Point in Main Harbor.  
Capital Elevator Co., Board of Trade Bldg.  
W. R. McCarthy, Mgr.  
Storage capacity, 1,300,000 Bu.  
Marine Elevating Legs, 1.  
Capacity per hour Elevating Leg, 20,000 Bu.  
Number of Marine Loading Spouts, 5.  
Capacity per hour of spouts, 40,000 Bu.  
Depth of water at dock, 21 feet 6 inches.  
Maximum length steamer that can load at elevator, 650 feet.  
R. R. Conn.: N. P., G. N., Soo, Omaha.  
Supt.—H. F. Graves.

#### Capital 6 and 7—

Located at Rices Point in Main Harbor.  
Capital Elevator Co., Board of Trade Bldg.  
W. R. McCarthy, Mgr.  
Storage capacity, 2,700,000 Bu.  
Number of Marine Loading Spouts, 5.  
Capacity per hour of spouts, 60,000 Bu., average.  
Depth of water at dock, 21 feet 6 inches.  
R. R. Conn.: N. P., G. N., Soo, Omaha.  
Supt.—H. F. Graves.

#### General Mills, "A" and Annex "B".

General Mills Inc., Board of Trade Bldg.  
Location: Rice's Point.  
Marine Loading Spouts, 7.  
Capacity per hour of spouts, 45,000 Bu.  
Storage capacity, 3,600,000 Bu.  
Depth of water at dock, 20 feet.  
Can handle any size boat.  
R. R. Conn.: N. P.  
Supt.—C. B. Johnson.

#### Norris Elevator "E" and Annex "F"—

Norris Grain Co., Board of Trade Bldg.  
G. H. Spencer, Vice Pres.

Marine Loading Spouts, 11.  
Capacity per hour Loading Spouts, 100,000 Bu.  
Marine Elevating Legs, 2.  
Capacity: 15,000 Bu. per hour each.  
Storage capacity, 2,300,000 Bu.  
Depth of water at dock, 20 feet.  
Can handle any size boat.  
R. R. Conn.: N. P.  
Mgr.—C. C. Blair.

#### Norris Elevator "H" and Annex "I"—

Norris Grain Co., Board of Trade Bldg.  
Mgr.—C. C. Blair.  
Marine Loading Spouts, "H" 8, "I" 4.  
Capacity of spouts per hour, "H" 45,000 Bu., "I" 40,000 Bu.  
Storage capacity 2,500,000 Bu.  
Depth of water at dock, 20 feet.  
Can handle any size boat.  
R. R. Conn.: N. P.  
Supt.—G. B. Miller.

#### Occident—

Occident Terminal Co.  
W. L. Brisley, Mgr., 316 Board of Trade.  
Marine Loading Spouts, 3.  
Capacity per hour Loading Spouts, 50,000 Bu.  
One Marine Elevating Leg.  
Capacity Marine Leg, 12,000 Bu. per hour.  
Storage capacity, 4,500,000 Bu.  
Depth of water, 24 feet.  
Can handle any size boat.  
R. R. Conn.: N. P., G. N., Soo, Omaha.  
Supt.—W. H. Teppen.

#### Peavey—

Globe Elevator Co., C. C. Blair, Mgr., Board of Trade Bldg.  
Phone Melrose 540.  
Marine Loading Spouts, 5.  
Capacity per hour Loading Spouts, 60,000 Bu.  
Storage capacity, 6,000,000 Bu.  
Depth of water at dock, 22 feet.  
Can handle any size boat.  
Can load 200 cars in 10 hours.



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R. R. Conn.: All roads.  
Supt.—John E. Carlson.

### ERIE, PA.

#### Pennsylvania—

Western Stevedoring Co.  
Marine Elevating Legs, 2.  
Capacity per hour, 25,000 Bu.  
Storage capacity, 2,500,000 Bu.  
Marine Loading Spout, 1.  
Capacity per hour, 12,000 Bu.  
Depth of water at dock, 22 feet.  
Can load 80 cars in 10 hours.  
Can handle any size boat.  
R. R. Conn.: Penna.  
Supt.—Theo. L. Musser.

### FAIRPORT, OHIO

#### A. E. Staley Manufacturing Co.—

Marine Elevating Legs, 2.  
Capacity per hour unloading, 20,000 Bu.  
Storage capacity, 1,000,000 Bu.  
Marine Loading Spout, 1.  
Capacity per hour, 20,000 Bu.  
Car Loading Spouts, 4.  
Car loading capacity, 125 cars per day.  
Depth of water at dock, 20 feet.  
Can handle any size boat.  
R. R. Conn.: B. & O.  
Note: Elevator receives and ships grain by rail only.

### FORT WILLIAM, ONT.

#### Consolidated—

Saskatchewan Pool Terminals, Ltd.  
Mgr., Harry Sellers.  
Kaministiquia River, Fort William, Ont.  
Number Loading Spouts, 3.  
Capacity per hour, 10,000 Bu. each.  
Number Loading Spouts, 3.  
Storage capacity, 1,750,000 Bu.  
Depth of water at dock, 23 feet.  
Can handle any size boat.

R. R. Conn.: C. P. R.  
Supt.—E. Glover.

#### Empire—

Canadian Consolidated Grain Co., Winnipeg, Man.; H. E. Riley, Mgr.  
Kaministiquia River, Fort William, Ont.  
Number Loading Spouts, 8.  
Capacity per hour, 35,000 Bu.  
Storage capacity, 1,750,000 Bu.  
Depth of water at dock, 23 feet.  
Can handle any size boat.  
R. R. Conn.: C. P. R.  
Supt.—J. A. Campbell.

#### Fort William "F"—

Fort William Elevator Co., Ltd., Winnipeg, W. G. Ketchapaw, Mgr.  
Kaministiquia River, Fort William, Ont.  
Marine Loading Legs, 3.  
Capacity per hour, 12,000 Bu. each.  
Number of Loading Spouts, 6.  
Storage capacity, 1,750,000 Bu.  
Depth of water at dock, 23 feet.  
Can handle any size boat.  
R. R. Conn.: C. P. R.  
Supt.—M. Montgomery.

#### Grain Growers "B"—

United Grain Growers Grain Co., Ltd., Winnipeg, Man.;  
Mgr., Murdock McKay.  
Kaministiquia River, Fort Williams, Ont.  
Marine Loading Spouts, 14.  
Capacity per hour of spouts, 70,000 Bu.  
Storage capacity, 2,500,000 Bu.  
Depth of water at dock, 23 feet.  
Can handle any size boat.  
R. R. Conn.: C. P. R.  
Supt.—Geo. McKay.

#### Grain Growers "E"—

United Grain Growers Grain Co., Ltd., Winnipeg, Man.;  
Mgr., Murdock McKay.  
Kaministiquia River, Fort William, Ont.  
Marine Loading Spouts, 8.  
Capacity per hour of spouts, 12,000 Bu.  
Storage capacity, 2,000,000 Bu.

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 Supt.—Geo. McKay.

#### Grand Trunk Pacific—

Mission River, Fort William, Ont.  
 Grand Trunk Pacific Elevator Co., Ltd., J. E. Dudley, Mgr., Winnipeg, Man.  
 Number Loading Spouts, 6.  
 Capacity per hour, 15,000 Bu.  
 Storage capacity, 5,750,000 Bu.  
 Depth of water at dock, 23 feet.  
 Days of free storage, 15.  
 Can handle any size boat.  
 R. R. Conn.: C. N. R. and C. P. R.  
 Supt.—M. F. Beyer.

#### Northland "D"—

Northland Elevator Co., Ltd., Fort William, Ont.  
 S. S. Orstad, Mgr.  
 Kaministiquia River, Fort William, Ont.  
 Marine Loading Legs, 7.  
 Capacity per hour, 17,000 Bu. each.  
 Number Loading Spouts, 13.  
 Storage capacity, 8,000,000 Bu.  
 Depth of water at dock, 22 feet.  
 Can handle any size boat.  
 R. R. Conn.: C. P. R.  
 Supt.—E. A. Sellers.

#### Northwestern—

Federal Grain, Ltd., Fort William, Ont.: Harry Sellers, Mgr.  
 Kaministiquia River, Fort William, Ont.  
 Marine Loading Legs, 3.  
 Capacity per hour, 25,000 Bu. each.  
 Number Loading Spouts, 4.  
 Storage capacity, 3,250,000 Bu.  
 Depth of water at dock, 23 feet.  
 Can handle any size boat.  
 R. R. Conn.: C. P. R. and C. N. R.  
 Supt.—F. McCallum.

#### Ogilvie—

Ogilvie Flour Mills Co., Ltd., Fort William, Ont.  
 V. W. McLean, Mgr.  
 Kaministiquia River, Fort William, Ont.  
 Capacity per hour, 35,000 Bu. each  
 Number Loading Spouts, 2.  
 Storage capacity, 3,000,000 Bu.  
 Depth of water at dock, 23 feet.  
 Can handle any size boat.  
 R. R. Conn.: C. P. R.  
 Supt.—D. McDonald.

#### Paterson "O"—

N. M. Paterson & Co., Ltd., Fort William, Ont.  
 Kaministiquia River, Fort William, Ont.  
 Marine Unloading Legs, 1.  
 Capacity per hour, 9,000 Bu.  
 Marine Loading Spouts, 2.  
 Capacity per hour, 25,000 Bu. each.  
 Number Loading Spouts, 2.  
 Storage capacity, 4,000,000 Bu.  
 Depth of water at dock, 21 feet.  
 Can handle any size boat.  
 R. R. Conn.: C. P. R. and C. N. R.  
 Supt.—P. C. Poulton.

#### Phoenix Elevator, Electric—

Bole Grain Co., Ltd.  
 Upper Turning Basin, Kaministiquia River, Fort William.  
 Storage capacity, 1,000,000 Bu.  
 Loading Spouts, 3.  
 Capacity per hour, 15,000 Bu.  
 Depth of water at dock, 23 feet.  
 Length of boat can handle, 620 feet.  
 R. R. Conn.: C. N. and C. P. R.  
 Supt.—W. Kirkpatrick.

#### Searle Elevator—

Owners, Searle Terminal, Ltd., Winnipeg, Man.  
 Mission River, Fort William, Ont.  
 Marine Loading Legs, 2.  
 Capacity per hour, 60,000 each.  
 Number Loading Spouts, 4.



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Storage capacity, 5,000,000 Bu.  
 Depth of water at dock, 25 feet.  
 Can handle any size boat.  
 R. R. Conn.: C. N. and C. P. R.  
 Supt.—L. C. Irwin.

**Western—**

Western Grain Co., Ltd., J. H. Irwin, Mgr., Fort William, Ont.  
 Kaministiquia River, Fort William, Ont.  
 Marine Loading Spouts, 6.  
 Capacity per hour each spout, 8,000 Bu.  
 Storage capacity, 3,100,000 Bu.  
 Depth of water at dock, 23 feet.  
 Can handle any size boat.  
 R. R. Conn.: C. P. R. and C. N. R.

**Wheat Pool, No. 8, C. P. R. R. Co.—**

Kaministiquia River, Fort William, Ont.  
 Marine Loading Legs, 2.  
 Capacity per hour Loading Spouts, 10,000 Bu.  
 Number Loading Spouts, 1.  
 Storage capacity, 2,500,000 Bu.  
 Depth of water at dock, 22 feet.  
 Can handle any size boat.  
 R. R. Conn.: C. P. R.  
 Supt.—P. McCalum.

**GODERICH, ONT.****Transit—**

Goderich Elevator & Transit Co., Telephone 65 and 67.  
 G. L. Parsons, Mgr.  
 Marine Elevating Legs, 3.  
 Capacity per hour unloading, 25,000 Bu.  
 Storage capacity, 3,000,000 Bu.  
 Marine Loading Spouts, 2.  
 Capacity Loading Spouts, 18,000 per hour.  
 Maximum length of boat, 550 feet, width 60-foot beam.  
 R. R. Conn.: G. T., C. N. R. and C. P. R.  
 Depth of water at dock, 22 feet.  
 Winter Mooring, 30 vessels.  
 Supt.—J. Murison; Res. Phone 15.

**Purity—**

Purity Canada Flour Mills, Ltd.

Mgr., R. M. Menzigs; Phone Goderich 103.  
 Marine Elevating Legs, 1.  
 Capacity per hour unloading, 12,000 Bu.  
 Storage capacity, 600,000 Bu.  
 Depth of water at dock, 19 feet.  
 Can handle any size ship.  
 R. R. Conn.: C. N. R., C. P. R.

**HALIFAX, NOVA SCOTIA****Halifax—**

Dominion Government.  
 Operated by National Harbours Board.  
 Storage capacity, 2,200,000 Bu.  
 Marine Elevating Legs, 1.  
 Capacity per hour loading, 90,000 Bu.  
 Mgr.—R. W. Henry; Phone 3-8231.

**HUMBERSTONE, ONT.****Robinhood Flour Mills, Ltd.—**

Location, on Welland Canal.  
 Marine Elevating Legs, 1.  
 Capacity per hour unloading, 36,000 Bu.  
 Number of Loading Spouts, 2.  
 Capacity per hour loading, 50,000 Bu.  
 Storage capacity, 2,400,000 Bu.  
 Depth of water at dock, 28 feet.  
 Can handle any size ship.  
 R. R. Conn.: C. N., C. P. R.  
 Mgr.—H. Cross; Res. Phone 4204.  
 Supt.—Q. E. Bell; Res. Phone 3247.

**HURON, OHIO****Eastern States & Co-operative Milling Corp.—**

Main Office, Buffalo, N. Y.  
 Storage capacity, 1,250,000 Bu.

**KINGSTON, ONT.****Kingston Elevator—**

Operated by Kingston Elevator Co., Ltd.; Phone Kingston 8152.  
 Located Little Cataraqui Bay, one mile west of Kingston, Ont.  
 Owned by Canada S. S. Lines, Ltd.  
 Number of Marine Elevating Legs, 2.

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Storage capacity, 2,500,000 Bu.  
 Capacity per hour, 30,000 each leg.  
 Capacity per hour Loading Spouts, 25,000 Bu. each.  
 Number of Marine Loading Spouts, 6.  
 Depth of water at dock, 23 feet.  
 Car loading capacity, 200 cars, 10 hours.  
 Can handle any size vessel.  
 R. R. Conn.: C. N. R. and C. P. R.  
 Supt.—J. L. Cross; phone summer 3692, winter 8114.

### MANITOWOC, WIS.

#### Elevator "A"—

Red Arrow Malting Co.  
 Marine Loading Spouts, 4.  
 Capacity per hour of spouts, 20,000 Bu.  
 Storage capacity, 800,000 Bu.  
 Depth of water at dock, 18 feet.  
 Can handle any size boat.  
 R. R. Conn.: C. & N. W., also Soo Line.  
 Supt.—M. C. Herman.

#### Elevator "B"—

Red Arrow Malting Co.  
 Marine Loading Spouts, 4.  
 Marine Elevator Legs, 1.  
 Capacity of spouts per hour, 20,000 Bu.  
 Storage capacity, 1,800,000 Bu.  
 Depth of water at dock, 17 feet 6 inches.  
 Can handle any size boat.  
 R. R. Conn.: C. & N. W. and Soo Line.  
 Supt.—M. C. Herman.

#### Rahr "Marine Terminal"—

Rahr Malting Co.  
 Marine Loading Spouts, 1.  
 Capacity of Spouts per hour, 20,000 Bu.  
 Marine Elevating Legs, 1.  
 Capacity per hour, 20,000 Bu.  
 Storage capacity, 6,000,000 Bu.  
 Depth of water at dock, 19 feet.  
 Can handle any size boat.  
 Supt.—W. O. Freund.

### MIDLAND, ONT.

#### Midland—

Telephone Midland 32; Montreal office, Lancaster 0231.  
 Canada S. S. Lines, Montreal, Que.  
 Marine Elevator Legs, 1.  
 Capacity per hour unloading, 12,000 Bu.  
 Marine Loading Spouts, 1.  
 Capacity per hour of spout, 12,000 Bu.  
 Storage capacity 4,000,000.  
 Depth of water at dock, 22 feet.  
 Can handle any size vessel.  
 R. R. Conn.: C. N. Ry., C. P. R.  
 Supt.—J. L. Cowan.

#### Midland-Simcoe—

Phone Midland 98.  
 Located on North Side of Harbor.  
 Owned by Midland-Simcoe Elevator Co., Ltd.  
 Mgr.—M. E. Tully; Res. Phone 203.  
 Storage capacity, 4,000,000 Bu.  
 Number of Marine Elevating Legs, 2.  
 Capacity per hour, 24,000 Bu.  
 Number of Marine Loading Spouts, 1.  
 Capacity per hour of spouts, 15,000 Bu.  
 Depth of water at dock, 23 to 25 feet.  
 Length of dock, 2,000 feet.  
 Can handle any size boat.  
 Loading capacity to cars, 30,000 per hour.  
 R. R. Conn.: C. N. R., C. P. R.  
 Winter mooring, 10 large steamers.

### MILWAUKEE, WIS.

#### C. M. & St. P. Elevator "E"—

South Menominee Canal (Menominee Slip).  
 Cargill Grain Co., Grain and Stock Exchange.  
 Storage capacity, 3,000,000 Bu.  
 Marine Elevating Legs, 1.  
 Capacity unloading leg, 8,000 Bu. per hour.  
 Number of Marine Loading Spouts, 4.  
 Capacity per hour of Loading Spouts, 30,000 Bu.  
 Depth of water at dock, 16 feet; channel, 21 feet.  
 Can handle 320 feet long, any beam.  
 Days of free storage, 10.



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 Stratton Grain Co., Grain and Stock Exchange.  
 Marine Loading Spouts, 6.  
 Capacity per hour of spouts, 15,000 Bu. each.  
 Storage capacity, 3,500,000 Bu.  
 Depth of water at dock, 21 feet.  
 Can handle any size boat.  
 R. R. Conn.: C. & N. W.

**Rialto "A"—**

Between Broadway and C. & N. W. Ry. Bridge, Milwaukee River.  
 Stratton Grain Co., Grain and Stock Exchange.  
 Marine Loading Spouts, 1.  
 Capacity per hour of spouts, 15,000 Bu.  
 Marine Elevating Leg, 1.  
 Capacity per hour unloading, 7,000 Bu.  
 Storage capacity, 550,000 Bu.  
 Depth of water at dock, 19 feet.  
 Days of free storage, 10.  
 Maximum size boat, 500 feet.  
 R. R. Conn.: C. & N. W.  
 Supt.—H. H. Hicks.

**MONTREAL, QUE.****Dominion Elevator, Ltd.—**

At foot of Lachine Canal.  
 Office, 4394 St. Ambrose St.  
 Storage capacity, 757,000 Bu.  
 Number of Marine Elevating Legs, 1.  
 Capacity of Elevating Legs, 10,000 Bu. per hour.  
 Canal depth at dock.  
 Maximum length vessel canal length.  
 Days free storage, 10.  
 R. R. Conn.: Canadian National and Canadian Pacific.  
 Mgr.—J. B. Trempe.  
 Supt.—Robert McGeachie; Phone Well 2550.

**Elevator "B"—**

At Windmill Point Basin.  
 Harbour Commissioners of Montreal.

357 Common St.

Storage capacity, 3,500,000 Bu.

Number of Marine Elevating Legs, 2.

Capacity per hour unloading, 18,000 Bu.

Capacity per hour loading, 16,000 Bu. each.

Depth of water at dock, 30 feet.

Can load vessels of any size.

Largest vessel that can unload, 300 feet, with 45-foot beam.

R. R. Conn.: Canadian National.

Gen. Mgr.—T. W. Harvie.

Supt.—Major J. K. Wyman.

**Elevator Number 1—**

Located at Section 15.

Harbour Commissioners Montreal.

357 Common St.

Storage capacity, 4,000,000 Bu.

Number of Marine Elevating Legs, 2.

Capacity per hour of each leg, 10,000 Bu.

Capacity per hour of Loading Spouts, 75,000 Bu.

Depth of water at dock, 30 feet.

Can unload steamers of 400-foot length.

Can load steamers of 1,000-foot length.

Supt.—Major J. K. Wyman.

**Elevator Number 2—**

Connected with No. 1 by Conveyor Galleries.

Located at Section 19.

Harbour Commissioners of Montreal.

357 Common St.

Storage capacity, 2,662,000 Bu.

Number of Marine Elevating Legs, 2.

Capacity per hour each Elevating Leg, 20,000 Bu.

Depth of water at dock, 30 feet.

Can unload steamers of 500-foot length.

Can load steamers of any length.

Supt.—Major J. K. Wyman; Phone Marquette 3781.

**Elevator Number 3—**

At Tarte Pier, Section 45.

Harbour Commissioners, 357 Common St.

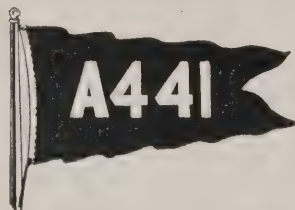
Storage capacity, 5,000,000 Bu.

Number of Marine Elevating Legs, 4.

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Capacity per hour unloading, 15,000 Bu. per Leg.  
 Depth of water at Elevator Dock, 30 feet.  
 Can load any size boat and unload any size.  
 R. R. Conn.: Harbour Terminal.  
 Supt.—Major J. K. Wyman; Phone Marquette 3781.

#### OGDENSBURG, N. Y.

##### Rutland—

Cargill Grain Co., Chamber of Commerce, Buffalo, N. Y.  
 Marine Elevating Legs, 1.  
 Capacity per hour unloading, 10,000 Bu.  
 Storage capacity, 500,000 Bu.  
 Depth of water at dock, 18 feet.  
 Can handle any size vessel.  
 Supt.—H. H. Larson.

#### OSWEGO, N. Y.

##### New York State Grain Elevator—

New York State Commission of Canals, Albany, N. Y.  
 Storage capacity, 1,000,000 Bu.  
 Marine Elevating Legs, 2.  
 Capacity per hour, 20,000 Bu.  
 Marine Loading Spouts, 3.  
 Capacity per hour, 20,000 each.  
 Depth of water at dock, 22 feet.  
 Can handle 600-foot boat.  
 Can load 100 cars in 10 hours.  
 R. R. Conn.: D. L. & W., N. Y. C., O. & W.

#### OWEN SOUND, ONT.

##### Great Lakes—

Great Lakes Elevator Co., Ltd., Phone Sound 118.  
 Storage capacity, 4,000,000 Bu.  
 Marine Elevating Legs, 1.  
 Capacity per hour unloading, 24,000 Bu.  
 Marine Loading Spouts, 1.  
 Capacity per hour, 20,000 Bu.  
 Depth of water at dock, 21 feet.  
 Car loading capacity per 10 hours, 150,000 Bu.  
 Can handle any size vessel.  
 R. R. Conn.: Canatian National and C. P. R.  
 Winter mooring space, 12 vessels.  
 Mgr.—M. E. Heels; Res. Phone 2118.

#### PORT ARTHUR, ONT.

##### Bawlf—

Lakefront, Port Arthur, Ont.  
 Bawlf Terminal Grain Co., Ltd., Winnipeg, Man.  
 G. C. Griffin, Mgr.  
 Marine Loading Legs, 3.  
 Capacity per hour, 13,000 Bu.  
 Number Loading Spouts, 2.  
 Storage capacity, 2,350,000 Bu.  
 Depth of water at dock, 25 feet.  
 Can handle any size boat.  
 R. R. Conn.: C. P. R. and C. N. R.  
 Supt.—K. Campbell.

##### Government—

Lakefront, Port Arthur, Ont.  
 McCab Bros. Grain Co., Ltd., Grain Exchange, Winnipeg, Man.  
 Marine Loading Spouts, 5.  
 Capacity per hour, 15,000 Bu. each.  
 Number Loading Spouts, 7.  
 Capacity per hour, 15,000 Bu.  
 Storage capacity, 3,250,000 Bu.  
 Depth of water at dock, 25 feet.  
 Can handle any size boat.  
 R. R. Conn.: C. P. R. and C. N. R.

##### Pool No. 1—

Lakefront, Port Arthur, Ont.  
 Manitoba Co-operative Wheat Producers, Ltd., Winnipeg, Man.  
 R. M. Mahoney, Mgr.  
 Number of Marine Unloading Legs, 1.  
 Capacity per hour, 8,000 Bu.  
 Marine Loading Legs, 2.  
 Capacity per hour each, 12,000 Bu.  
 Number Loading Spouts, 5.  
 Storage capacity, 1,300,000 Bu.  
 Depth of water at dock, 23 feet.  
 Can handle any length boat.  
 R. R. Conn.: C. P. R. and C. N. R.  
 Ter-Supt.—C. S. Maxwell.  
 Supt.—J. Belanger.



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**Pool No. 2—**

Lakefront, Port Arthur, Ont.  
 Manitoba Co-Operative Wheat Producers, Ltd., Winnipeg, Man.  
 R. M. Mahoney, Mgr.  
 Marine Loading Legs, 3.  
 Capacity per hour, 10,000 Bu. each.  
 Number Loading Spouts, 2.  
 Capacity per hour, 15,000 Bu.  
 Storage capacity, 1,400,000 Bu.  
 Depth of water at dock, 22 feet.  
 Can handle 500-foot boat up to 60-foot beam.  
 R. R. Conn.: C. P. R.  
 Ter-Supt.—C. S. Maxwell.  
 Supt.—T. O. Cliff.

**Pool No. 4—**

Lakefront, Port Arthur, Ont.  
 Saskatchewan Pool Terminals, Ltd., Winnipeg, Man.  
 Marine Loading Legs, 6.  
 Capacity per hour, 10,000 Bu. each.  
 Number Loading Spouts, 6.  
 Storage capacity, 8,400,000 Bu.  
 Depth of water at dock, 25 feet.  
 Can handle any size boat  
 R. R. Conn.: C. P. R. and C. N. R.  
 Supt.—C. R. Lindeman.

**Pool No. 5—**

Lakefront, Port Arthur, Ont.  
 Saskatchewan Pool Terminals, Ltd., Winnipeg, Man.  
 Number Loading Spouts, 2.  
 Capacity per hour, 15,000 Bu. each.  
 Storage Capacity, 2,150,000 Bu.  
 Depth of water at dock, 25 feet.  
 Can handle any size boat.  
 R. R. Conn.: C. P. R. and C. N. R.

**Pool No. 6—**

Lakefront, Port Arthur, Ont.  
 Saskatchewan Pool Terminals, Ltd., Winnipeg, Man.  
 Marine Loading Spouts, 5.  
 Capacity per hour, 15,000 Bu. each.  
 Storage capacity, 7,500,000 Bu.

Depth of water at dock, 25 feet.  
 Can handle any size boat.  
 R. R. Conn.: C. N. R.  
 Supt.—F. W. Pyett.

**Pool Elevator No. 7—**

Lakefront, Port Arthur, Ont.  
 Saskatchewan Pool Terminal, Ltd., Winnipeg, Man.  
 Marine Elevating Legs, 1.  
 Capacity per hour, 15,000 Bu. each.  
 Marine Loading Spouts, 10.  
 Capacity per hour, 15,000 Bu. each.  
 Storage capacity, 9,000,000 Bu.  
 Depth of water at dock, 25 feet.  
 Can handle any size boat.  
 R. R. Conn.: C. P. R. and C. N. R.  
 Supt.—J. W. Patterson.

**Reliance—**

Lakefront, Port Arthur, Ont.  
 Reliance Grain Co., Ltd., Winnipeg, Man.  
 Number Loading Spouts, 3.  
 Capacity per hour each, 15,000 Bu.  
 Storage capacity, 3,500,000 Bu.  
 Marine Unloading Legs, 1.  
 Capacity per hour, 12,000 Bu.  
 Depth of water at dock, 25 feet.  
 Can handle any size boat.  
 R. R. Conn.: C. P. R. and C. N. R.  
 Mgr.—R. P. Pow.  
 Supt.—J. McDonald.

**Richardson—**

Lakefront, Port Arthur, Ont.  
 Eastern Terminal Elevator Co., Ltd., Winnipeg, Man.  
 Mgr.—R. D. Morgan.  
 Marine Loading Spouts, 5.  
 Capacity per hour of spouts, 60,000 Bu.  
 Storage capacity, 5,500,000 Bu.  
 Marine Elevating Legs, 1.  
 Capacity per hour Elevating Legs, 7,000 Bu.  
 Depth of water at dock, 24 feet.  
 Can handle any size boat.

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Supt.—Huch Grant.

#### Stewart—

Lakefront, Port Arthur, Ont.  
Federal Grain, Ltd., Fort William, Ont.  
Harry Sellers, Mgr.  
Marine Loading Legs, 4.  
Capacity per hour, 12,000 Bu. each.  
Number Loading Spouts, 3.  
Storage capacity, 2,250,000 Bu.  
Depth of water at dock, 25 feet.  
Can handle any size boat.  
R. R. Conn.: C. P. R. and C. N. R.  
Supt.—Archie Bruce.

#### Superior Elevator—

Lakefront, Port Arthur, Ont.  
Superior Elevator Co., Ltd.  
Number Loading Spouts, 2.  
Capacity per hour, 25,000 Bu.  
Storage capacity, 1,000,000 Bu.  
Depth of water at dock, 25 feet.  
Can handle any size boat.  
R. R. Conn.: C. P. R. and C. N. R.  
Supt.—F. J. McLean.

#### Thunder Bay—

Lakefront, Port Arthur, Ont.  
Canadian Consolidated Grain Co., Ltd., Winnipeg, Man.  
Mgr.—C. E. Hayles.  
Number Loading Spouts, 4.  
Capacity per hour, 25,000 Bu.  
Storage capacity, 1,500,000 Bu.  
Depth of water at dock, 26 feet.  
Can handle any size boat.  
R. R. Conn.: C. P. R. and C. N. R.  
Supt.—J. A. Campbell.

#### Union—

Union Terminal, Ltd., Winnipeg, Man.  
Mgr.—W. L. Anderson, Lake Front, Port Arthur, Ont.  
Number of Marine Loading Legs, 2.

Storage capacity, 1,110,000 Bu.  
Capacity per hour, 14,000 Bu. each.  
Number Loading Spouts, 2.  
Depth of water at dock, 25 feet.  
Can handle any size boat.  
R. R. Conn.: C. P. R. and C. N.  
Supt.—W. D. McIntosh.

#### United Grain Growers Elevator "A"—

Lakefront, Port Arthur, Ont.  
Owners—United Grain Growers Terminals, Ltd., Port Arthur, Ont.  
M. MacKay, Mgr.  
Marine Loading Legs, 4.  
Capacity per hour, 20,000 Bu. each.  
Number Loading Spouts, 4.  
Storage capacity, 5,500,000 Bu.  
Depth of water at dock, 25 feet.  
Can handle any size boat.  
R. R. Conn.: C. P. R. and C. N. R.  
M. MacKay, Mgr.

### PORT COLBORNE, ONT.

#### Government Grain Elevator—

C. A. Bennett, Mgr.  
Owned by Dominion Government.  
Operated by National Harbours Board.  
Storage capacity, 3,000,000 Bu.  
Marine Elevating Legs, 4.  
Unloading capacity, 30,000 Bu. per hour.  
Loading Spouts to boats, 9.  
Loading Spouts capacity, 60,000 Bu. per hour.  
Depth of water at dock, 22 feet.  
Can handle boats of any size.  
R. R. Conn.: C. N. R., N. S. & T., T. H. & B.  
Supt.—C. A. Bennett; Phone 3545, Res. Phone 4212.

#### Maple Leaf—

Maple Leaf Milling Co., Ltd.; Phone Port Colborne 4515.  
Marine Elevating Legs, 1.  
Unloading capacity, 17,500 Bu. per hour.  
Marine Loading Spouts, 2.  
Loading capacity, 20,000 Bu. per hour  
Mgr.—J. S. Fisher, Phone 3264.



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 Depth of water at dock, 21 feet.  
 Can handle any size boat.  
 R. R. Conn.: G. T. and C. N. R.  
 Supt.—R. A. Kinnear; Phone 3157.

### PORT McNICOLL, ONT.

#### Canadian Pacific—

Owned and operated by Canadian Pacific Ry. Co., Montreal, Que.  
 Phone McNicoll 5.  
 Marine Elevating Legs, 3.  
 Marine Loading Spouts, 1.  
 Capacity Loading Spouts, 10,000 per hour.  
 Storage capacity, 6,500,000 Bu.  
 Unloading capacity, 36,000 Bu. per hour.  
 Depth of water at dock, 22 feet.  
 Can handle any size boat.  
 R. R. Conn.: C. P. R.  
 Supt.—J. B. Winfield; Phone McNicoll 24.

### PRESCOTT, ONT.

#### Canadian Government Elevator—

Johnstones Bay on St. Lawrence River; Phone Prescott 48.  
 Owned by Dominion Government.  
 Operated by National Harbours Board.  
 Storage capacity, 5,500,000 Bu.  
 Marine Elevating Legs, 5; 4 portable, 1 stationary.  
 Capacity per hour, 35,000 Bu. each of the Portable Legs.  
 Capacity per hour, 18,000 Bu. with the Stationary Legs.  
 Marine Loading Spouts, 15.  
 Capacity per loading spouts, 100,000 Bu.  
 Depth of water at dock, 25 feet to unload.  
 Can load 400,000 Bu. in 10 hours to cars.  
 Can handle any size boat.  
 R. R. Conn.: C. N. R. and C. P. R.  
 Supt.—Geo. Birch; Res. Phone 241.  
 Winter mooring space: In loading slip, 3 lake vessels or 6 canallers;  
 in unloading slip, 3 lake vessels or 12 canallers.

### QUEBEC, QUEBEC

Located at the harbor of Princess Louise Docks.  
 Owned by Dominion Government.

Operated by National Harbours Board.  
 Storage capacity, 4,000,000 Bu.  
 Marine Elevating Legs, 4.  
 Capacity per hour Elevating Legs, 40,000 Bu.  
 Marine Loading Spouts, 4 traveling gantries and 2 direct spots.  
 Capacity per hour of spouts, 90,000 Bu.  
 Can handle any size ship.  
 Can load 120 cars in 10 hours.  
 Days of free storage, 10.  
 R. R. Conn.: C. P. R. and C. N. R.  
 Winter mooring: 10 canallers in outer basin.  
 Supt.—Frank Ouellet; Phone 2-4188; Res. Phone 2-2841.

### SARNIA, ONT.

#### Sarnia Elevator—

Sarnia Elevator Co., Ltd.  
 Phone Sarnia 2640; Night 2781.  
 Storage capacity, 3,000,000 Bu.; temporary annex, 3,000,000 Bu.  
 Marine Elevator Legs, 2.  
 Capacity per hour unloading, 25,000 Bu. each leg.  
 Loading capacity, 20,000 Bu. per hour.  
 Depth of water at dock, 24 feet.  
 Slip, 3,500 feet long.  
 Can handle any size ship.  
 R. R. Conn.: C. N. Ry. and Pere Marquette.  
 Vice Pres., Gen. Mgr.—J. A. Smith.  
 Supt.—T. A. Irwin.

### SOUTH CHICAGO, ILL.

#### Calumet "C"—

Slip No. 2—102d St., West Side River.  
 Norris Grain Co., Board of Trade Bldg., Chicago, Ill.  
 Marine Loading Spouts, 2.  
 Capacity per hour of spouts, 40,000 Bu.  
 Storage capacity, 2,750,000 Bu.  
 Marine Elevating Legs, 1.  
 Capacity per hour, 12,000 Bu.  
 Depth of water at dock, 20 feet.  
 Can handle 525 feet long; 56-foot beam.  
 R. R. Conn.: Belt Line.  
 Supt.—Wm. H. Gassler.  
 Mgr.—W. H. McDonald.  
 Phone Saginaw 1-4473.

Chicken, Steak, Frog-legs and Seafood Dinners  
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**Irondale "A"—**

Phone Saginaw 2230.  
 Slip No. 50—107th St., West Side River.  
 Illinois Grain Terminals Co., Board of Trade Bldg.  
 Number of Elevating Legs, 1.  
 Capacity per hour, 15,000 Bu.  
 Marine Loading Spouts, 4.  
 Capacity per hour of spouts, 40,000 Bu.  
 Storage capacity, 2,500,000 Bu.  
 Depth of water at dock, 19 feet.  
 Can handle ships up to 480-foot keel.  
 R. R. Conn.: Rock Island.  
 Supt.—R. J. Sayre; Res. Phone Cedarcrest 3-5027.

**Keystone—**

106th St., East Side River.  
 E. R. Bacon Grain Co., Board of Trade Bldg.  
 Marine Loading Spouts, 8.  
 Capacity per hour Loading Spouts, 30,000 Bu. each.  
 Storage capacity, 1,750,000 Bu.  
 Depth of water at dock, 21 feet.  
 Maximum length of boat, 520 feet up to 58-foot beam.  
 R. R. Conn.: Indiana Harbor Belt and Pennsylvania.  
 Mgr.—E. R. Bacon, Jr.  
 Supt.—Boyd Fink.

**Norris—**

98th St., East Side Calumet River.  
 Norris Grain Co., Board of Trade Bldg., Chicago, Ill.  
 Number of Loading Spouts, 3.  
 Capacity per hour Loading Spouts, 40,000 Bu.  
 Storage capacity, 2,500,000 Bu.  
 Can load boat 500 feet long, 54-foot beam.  
 Depth of water at dock, 19 feet.  
 R. R. Conn.: Penna. and Indiana Harbor Belt.  
 Supt.—Wm. Gallup.

**North Western—Cargill Elevator—**

Phone S. Chi. 8430.  
 Location Calumet River at 122nd St.  
 Operator Cargill, Inc., Board of Trade Bldg.  
 Marine Elevating Legs, 1.  
 Capacity per hour elevating, 14,000 Bu.

Storage capacity, 18,000,000 Bu.  
 Number of Marine Loading Spouts, 12.  
 Capacity per hour loading, 10,000 Bu. each.  
 Depth of water at dock, 22 feet.  
 Can handle any size boat.  
 R. R. Conn.: C. & N. W.  
 Supt.—Adolph Swendson; Res. Phone Hammond 4842.

**Rialto "A"—Division of General Mills, Inc.—**

104 St. North side slip No. 4.  
 Phone S. Chi. 0113.  
 Star Grain Co.  
 R. M. Henry.  
 Marine Loading Spouts, 8.  
 Capacity per hour Loading Spouts, 10,000 Bu.  
 Storage capacity, 2,500,000 Bu.  
 Marine Elevating Legs, 1.  
 Capacity per hour, 9,000 Bu.  
 Depth of water at dock, 19 feet.  
 Maximum length of boat, 525 feet.  
 R. R. Conn.: Belt Line.  
 Supt.—Frank Deoback.

**Continental "A" (Rock Island)—**

93rd St., West Side River.  
 Continental Grain Co.  
 Marine Loading Spouts, 2.  
 Capacity per hour of spouts, 25,000 Bu.  
 Marine Elevating Legs, 1.  
 Capacity per hour, 20,000 Bu.  
 Storage capacity, 1,100,000 Bu.  
 Depth of water at dock, 20 feet.  
 R. R. Conn.: C. R. I. & P.  
 Chicago Elevator Properties, Inc.  
 Maximum length of ship, without winding, 525 feet.  
 Supt.—Frank Crombie; Phone Regent 0110.

**Continental "B" (Rock Island)—**

Phone S. Chi. 0135.  
 Continental Grain Co.  
 93rd St., West Side River.  
 Marine Loading Spouts, 4.  
 Capacity per hour Loading Spouts, 15,000 Bu. per Spout.  
 Storage capacity, 3,000,000 Bu.



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Depth of water at dock, 20 feet.  
 Maximum length of boat, 450 feet.  
 P. R. Conn.: C. R. I. & P., Belt, N. Y. C., B. & O. & Penn.  
 Supt.—Frank Crombie; Phone Regent 4-0110.

### **SOREL, QUEBEC**

#### **North American—**

Phone Sorel 893; Montreal office, Harbor 8162.  
 North American Elevators, Ltd., Operators.  
 110 Coristine Bldgs., E. G. deGrey, Mgr., Montreal, Quebec.  
 Marine Elevating Legs, 2.  
 Capacity per hour, 25,000 Bu.  
 Storage capacity, 3,000,000 Bu.  
 Number of Marine Loading Spouts, 4.  
 Capacity of Loading Spouts per hour, 120,000 Bu.  
 Depth of water at dock, 30 feet.  
 Maximum length of ship that can unload, 600 feet.  
 R. R. Conn.: Canadian National.  
 Supt.—C. E. Manning; Res. Phone Sorel 2807.

### **ST. JOHN, NEW BRUNSWICK**

#### **St. John Harbour Commissioners Elevator—**

Storage capacity, 1,575,000 Bu.  
 Number of traveling ship-loaders, 14.  
 Capacity per hour of traveling ship-loaders, 20,000 Bu. each.  
 Maximum length of ship that can load, 700 feet.  
 Loading capacity to cars per 10 hours, 100,000 Bu.  
 Supt.—Edward Lattimore.

#### **Canadian National—**

Phone 3-2441.  
 Located on east side of harbor.  
 Canadian National R. R. Co., W. U. Appleton.  
 Storage capacity, 500,000 Bu.  
 Number of Marine Loading Spouts, 13.  
 Capacity per hour of spouts, 15,000.  
 Depth of water at dock, 32 feet.  
 Maximum length of ship that can load, 550 feet.  
 R. R. Conn.: C. N. R. and C. P. R.  
 Local Agent—G. C. Elliott, Canadian National Railways, St. John, N. B.

#### **Canadian Pacific "B"—**

Location Sand Point, West St. John.

Storage capacity, 1,000,000.  
 Number of Marine Loading Spouts, 6 conveyor.  
 Capacity per hour each spout, 16,000 Bu.  
 Days of free storage, 10.  
 Depth of water at dock, 30 feet.  
 R. R. Conn.: C. P. R. and C. N. Ry.  
 Mgr.—J. M. Woodman, Ry. Gen. Supt.  
 Supt.—Edw. Lattimore.

### **SUPERIOR, WIS.**

#### **Farmers' Union Grain Terminal—**

Location Tower Slip, St. Louis Bay.  
 Storage capacity, 4,500,000 Bu.  
 Marine Loading Spouts, 5.  
 Capacity per hour loading, 50,000 Bu.  
 Marine Elevating Legs, 1.  
 Capacity per hour unloading, 20,000 Bu.  
 Depth of water at dock, 26 feet.  
 Days of free storage, 15.  
 Can handle any size ship.  
 R. R. Conn.: Terminal transfer from all roads.

#### **Globe—**

Superior Harbor.  
 Globe Elevator Co., C. C. Blair, Mgr., Board of Trade Bldg., Duluth, Minn.; Phone Melrose 540.  
 Marine Loading Spouts, 6.  
 Capacity per hour Loading Spouts, 30,000 Bu.  
 Marine Elevating Legs, 1.  
 Capacity per hour, 10,000 Bu.  
 Storage capacity, 5,000,000 Bu.  
 Depth of water at dock, 21 feet.  
 Can handle any size boat.  
 R. R. Conn.: C. St. P. M. & O.  
 Supt.—John Maki.

#### **Great Northern "S"—**

Archer Daniels Midland Co., Board of Trade Bldg., Duluth, Minn.  
 Number of Loading Spouts, 18.  
 Capacity of spouts per hour, 50,000 Bu.  
 Marine Elevating Legs, 1.  
 Capacity of Elevating Leg, 15,000 Bu. per hour.  
 Storage capacity, 11,000,000 Bu.



MONROE HARBOR

Depth of water at dock, 22 feet.  
 Can handle any size boat.  
 R. R. Conn.: G. N., N. P., Soo, Omaha.  
 Supt.—Norman Olson.

#### **Itasca, Allouez—**

Cargill Grain Co.  
 Board of Trade Bldg., Duluth, Minn.  
 Marine Loading Spouts, 10.  
 Capacity per hour of spouts, 50,000 Bu.  
 Number of cars can load in 10 hours, 100.  
 Storage capacity, 2,400,000 Bu.  
 Depth of water at dock, 21 feet.  
 Can load any size boat.  
 R. R. Conn.: C. St. P. M. & O.  
 Supt.—W. J. Arseneau.

#### **Farmers Union Elevator D. (Kellog)—**

Located at Hughitt Slip, Howards Pocket.  
 Operator, Farmers Union Grain Terminal Assoc.  
 Storage capacity, 1,500,000 Bu.  
 Number of Marine Loading Spouts, 4.  
 Marine Elevating Legs, 2.  
 Capacity per hour of Elevating Legs, 8,000 Bu.  
 Capacity per hour of Loading Spouts, 25,000 Bu. House "B."  
 Capacity per hour of Loading Spouts, 30,000 Bu. House "A."  
 Can handle any size ship.  
 R. R. Conn.: Lake Superior Terminal.  
 Mgr. and Supt.—Russel M. Johnson.

#### **Terminal "K" and "L"—**

Old Town—Lower Superior Harbor.  
 Cargill Grain Co., Board of Trade Bldg., Duluth, Minn.  
 Mgr.—H. W. Wilson.  
 Marine Loading Spouts, 7.  
 Capacity per hour, each Spout, 30,000 Bu.  
 Storage capacity, 2,500,000 Bu.  
 Depth of water at dock, 22 feet.  
 Can handle any size boat.  
 Can load 100 cars in 10 hours.  
 R. R. Conn.: N. P.  
 Supt.—E. E. Grant.

#### **Terminal "M"—**

Old Town—Lower Superior Harbor.  
 Mgr.—Fred Champaigne.  
 Cargill Commission Co., Board of Trade Bldg., Duluth, Minn.  
 Marine Loading Spouts, 4.  
 Capacity per hour of Spouts, 25,000 Bu.  
 Storage capacity, 1,000,000 Bu.  
 Depth of water at dock, 22 feet.  
 Can handle any size boat.  
 Can load 60 cars in 10 hours.  
 R. R. Conn.: N. P.  
 Supt.—E. E. Grant.

#### **TIFFIN, ONT.**

#### **Aberdeen—**

Phone Midland 120.  
 Aberdeen Elevator Co., Ltd.  
 E. R. Bacon & Co., Board of Trade Bldg., Chicago, Ill.  
 Marine Elevating Legs, 1  
 Loading capacity, 10,000 Bu. per hour; 1 spout.  
 Capacity per hour unloading, 30,000 Bu.  
 Storage capacity, 1,000,000 Bu.  
 Depth of water at dock, 26 feet.  
 Can handle 650-foot boat up to 70-foot beam.  
 R. R. Conn.: C. N. R. and C. P. R.  
 Supt.—R. E. Preston; Res. Phone Midland 336.

#### **Tiffin No. 2—**

Phone C. H. R. Agart, Midland 72-3.  
 Canadian National Rys., A. E. Warren, Mgr., Midland, Ont.  
 Mouth of Wye River.  
 Unloading capacity, 45,000 Bu. per hour.  
 Marine Elevating Legs, 3.  
 Storage capacity, 4,500,000.  
 Marine Loading Spouts, 1.  
 Capacity per hour, 12,000 Bu.  
 Depth of water at dock, 24 feet.  
 Can handle any size ship.  
 R. R. Conn.: C. N. Ry.  
 Supt.—C. A. Flowers; Phone 132M; Res. Phone 380.



**THREE RIVERS, QUEBEC.****Three Rivers Grain & Elevator Co.—**

Owned and operated by Three Rivers Grain & Elevator Co., Ltd.

Capacity, 2,000,000 Bu.—Temporary Annex 3,000,000 Bu.

Depth of water at dock, 34 feet.

Marine Legs, 1.

Unloading capacity, 20,000 Bu. per hour.

Loading capacity, 40,000 Bu. per hour, 5 spouts.

R. R. Conn.: C. P. R. only.

Phone 1271.

Supt.—E. Erickson; Res. Phone 2119-M.

**TOLEDO, OHIO****Anderson Elevator—Phone, Taylor 5725—**

Location: Southwest Fawcett St. Bridge.

Operated by Anderson Elevator Co., Maumee, Ohio—Phone LU 3-3333.

Storage capacity, 4,100,000 Bu.

Number Marine Elevating Legs, 1.

Capacity per hour, 15,000 Bu.

Number Marine Loading Spouts, 1.

Capacity per hour loading, 15,000 Bu.

Depth of water at dock, 17 feet.

Can handle any size boat.

Supt.—Thomas Anderson.

**B. & O.—**

Norris Grain Co., Paul A. Atkinson, Mgr.

Produce Exchange Bldg., Phone Adams 6222.

Location: East side of Maumee River, South of Fawcett St. Bridge.

Capacity per hour unloading, 10,000 Bu.

Marine Loading Spouts, 2.

Capacity Loading Spouts, 12,000 Bu.

Storage capacity, 500,000 Bu.

Depth of water at dock, 25 feet.

Can handle any size boat.

R. R. Conn.: B. & O., N. Y. C., W. L. E., C. & O.

Supt.—Sylvester Flowers.

**East Side Iron Elevator—**

North of N. Y. C. Bridge, on east side of Maumee River.

Norris Grain Co., Paul A. Atkinson, Mgr.

Produce Exchange Bldg.

Marine Elevating Legs, 1.

Capacity per unloading, 10,000 Bu.

Marine Loading Spouts, 1.

Capacity Loading Spout, 25,000 Bu. per hour.

Storage capacity, 2,000,000 Bu.

Depth of water at dock, 25 feet.

Can handle any size boat.

R. R. Conn.: N. Y. C., Pennsylvania & B. & O.

Supt.—Wm. Y. Smith.

**National Biscuit Co.—**

Location: North of Ash Consul Bridge, on east side of Maumee River.

Storage capacity, 6,000,000 Bu.

Marine Elevating Legs, 1.

Capacity per hour, 15,000 Bu.

Depth of water at dock, 19 feet

Can handle any size boat

R. R. Conn.: Nickel Plate.

Supt.—L. E. Collier.

Gen. Mgr.—P. A. Kier.

**TORONTO, ONT****Toronto Elevator, Ltd.—**

Phone Elgin 7161.

Foot of John Street.

Toronto Elevator, Ltd., Brock Bldg.

Storage capacity, 4,000,000 Bu.

Marine Elevating Legs, 1.

Capacity per hour, 16,000 Bu.

Marine Loading Spouts, 2.

Capacity per hour, 35,000 Bu.

Depth of water at dock, 24 feet.

R. R. Conn.: C. N. R., C. P. R.

Supt.—J. C. Hughson; Res. Phone Grover 9243.

**WALKERVILLE, ONT.****Hiram Walkers—**

Hiram Walker & Sons Grain Corp., Ltd.

Number of Marine Unloading Legs, 1.

Depth of water at dock, 25 feet.

Storage capacity No. 3, 1,325,000 Bu.

Hourly capacity, 25,000 Bu.

Length of dock, 1,350 feet; depth, 25 feet.

Loading capacity, 38,000 Bu. per hour.

Maximum length of boat, any size.

Winter moorings; 1 600-foot and 3 small vessels.

R. R. Conn.: C. N. R., P. M. and Wabash.

Supt.—Percy Rule.

**ASHTABULA, OHIO****The Ashtabula & Buffalo Dock Co. (Superior No. 1)—**

Union Commerce Bldg., Cleveland, Ohio.  
 Pickands, Mather & Co.  
 West Side of N. Y. C. Slip, east of Main River.  
 Hulett Electric Unloaders, 4.  
 Size of clam shells used, 15-ton.  
 Capacity per 10 hours, 22,000 tons.  
 McMyler Crane, 1.  
 Boom, 50-foot.  
 Thew Steam Shovels, 2.  
 Capacity, 800 tons 10 hours.  
 Depth of water at dock, 22 feet.  
 Storage capacity, 1,000,000 tons.  
 Can handle boats of any length.  
 R. R. Conn.: N. Y. C., P. & L. E., Erie and Pennsylvania.  
 Supt.—F. M. Burns.

**Ohio & Western Pennsylvania Dock Co. (P. Y. & A.) Dock No. 1—**

West Side of Main River.  
 Leader Bldg., Cleveland, Ohio.  
 Hoover & Mason Electrics, 6.  
 Size of clam shells used, 6-ton.  
 Capacity per 10 hours, 25,000 tons.  
 Depth of water at dock, 21 feet.  
 Maximum length of boat, any.  
 R. R. Conn.: Pennsylvania.  
 Supt.—Carl M. Freed.

**Union Dock Company, Dock No. 2—**

Hulett electric unloaders, 4.  
 Size of clam shells used, 15-ton.  
 Capacity per 10 hours, 22,000 tons.  
 Storage capacity, 1,200,000 tons.  
 Depth of water at dock, 21 feet.  
 Can handle boats of any length.  
 R. R. Conn.: N. Y. C., P. & L. E., B. & O., Erie and Pennsylvania.  
 Supt.—T. H. Burger.

**BUFFALO, N. Y.****The Ashtabula & Buffalo Dock Co. (West Shore)—**

Union Commerce Bldg., Cleveland, Ohio.

Location, Blackwell Canal.  
 Brown electric unloaders, 3.  
 Size of clam shells used, 7-ton.  
 Capacity per 10 hours, 7,500 tons.  
 Depth of water at dock, 22 feet.  
 Can handle boats of any length.  
 Storage capacity, 70,000 tons.

R. R. Conn.: N. Y. C. & H. R., Buffalo Creek, Pennsylvania, Erie,  
 D. L. & W. and L. V.  
 Supt.—H. C. Henry.

**The Hanna Furnace Corp.—**

Division National Steel Corp.  
 Union Canal, Lackawanna.  
 Size of clam shells used, 2-6 ton, 4-5 ton.  
 Brown unloaders, 6.  
 Storage capacity, 500,000 tons.  
 Capacity per 10 hours, 8,000 tons.  
 Can handle any size boat.  
 Depth of water at dock, 21 feet.  
 R. R. Conn.: P. R. R., So. Buffalo, L. V.  
 Supt. E. Regan.

**Republic Steel Co.—**

475 Abbott Road.  
 Buffalo River.  
 Brown Hoists, 2.  
 Size buckets used 2-7½ ton, 2-5 ton Coal Bulite.  
 Capacity 10 hours, 3,000 tons.  
 Mead Morrison, 1.  
 Size of clam shell, 12½ tons.  
 Capacity per 10 hours, 3,000 tons.  
 Storage capacity, 700,000 tons.  
 Depth of water at dock, 17 feet 6 inches.  
 Can handle boats of any length.  
 R. R. Conn.: D. L. & W., B. R. & P., B. & O.  
 Supt.—Sherman Shadle.

**Lackawanna Plant (Bethlehem Steel Co.)—**

South End of Buffalo Harbor.  
 Hulett electric unloaders, 3-17 ton.  
 Capacity of 3 machines in 10 hours, 15,000 tons.  
 Depth of water at dock, 22 feet.

Can handle boats of any length.  
Storage capacity, 2,000,000 tons.  
R. R. Conn.: All lines entering Buffalo.

#### **Pennsylvania Railroad Ore Dock—**

Location, Union Canal, Lackawanna, N. Y.  
Operator, Erie Coal Dock Co., Wm. S. Beatty, Pres.  
Hulett electric unloader, 1.  
Size of clam shells used, 10-ton.  
Capacity per 10 hours, 3,500 tons.  
Brown electric unloaders, 2.  
Size of clam shells used, 5-ton.  
Capacity per 10 hours, 4,500 tons.  
Storage capacity, 400,000 tons.  
Depth of water at dock, 22 feet.  
Can handle boats of any length.  
R. R. Conn.: N. Y. C. & H. R., Buffalo Creek, Pennsylvania, Erie, D.  
L. & W. and L. V.

#### **Wick Wire—Spencer Steel Corp. (Niagara River)—**

Electric Hulett, 1.  
Size of clam shell used, 10-ton.  
Capacity, 3,500 tons per day 10 hours.  
Brown Hoists, 1.  
Size of clam shells, 7½ tons.  
Unloading capacity, 3,500 tons.  
Can handle boats of any length.  
Depth of water at dock, 23 feet.  
Storage capacity, 1,000,000 tons.  
R. R. Conn.: D. L. & W., L. V., N. Y. C., Belt Line.  
Supt.—Roy E. Gardner.

### **CLEVELAND, OHIO**

#### **United States Steel Company—**

Jefferson Street.  
American Steel and Wire Division, operators.  
Hulett electric unloaders, 2.  
Size of clam shells used, 10-ton.  
Capacity per 10 hours, 8,000 tons.  
Hoover & Mason unloaders, 4.  
Size of clam shells used, 5-ton.  
Depth of water at dock, 20 feet.  
Capacity per 10 hours, 5,500 tons.

Storage capacity, 750,000 tons.  
Maximum length of boat, 525 feet.  
R. R. Conn.: Newburg & South Shore and B. & O.  
Works' Supt.—J. E. Allen.  
Dept. Supt of Docks—G. B. Deering.

#### **Cleveland & Pittsburgh Ore Dock—Pennsylvania R. R.—**

West Breakwater, Outer Harbor.  
Ohio & Western Pennsylvania Dock Co.  
Leader Bldg., Cleveland, Ohio.  
Hulett Solid Arm Electrics, 4.  
Size of clam shells used, 17-ton.  
Capacity per 10 hours, 20,000 tons.  
Storage: Pit in connection with storage bridge.  
Depth of water at dock, 22 feet.  
Can handle any size boat and any size center of hatch.  
Hatches must be at least 7 feet wide.  
Storage capacity, 1,000,000 tons.  
R. R. Conn.: Pennsylvania.  
Supt.—W. O. Rainnie.

#### **The Erie Dock Co. (N. Y. P. & O.)—**

Pickands Mather, Mgr.  
Old River Bed, Foot of W. 25th St.  
Huletts, 3.  
Size of clam shells used, 17-ton.  
Capacity per 10 hours, 16,500 tons.  
Storage capacity, 1,000,000 tons.  
Depth of water at dock, 21 feet.  
Can handle boats of any length.  
R. R. Conn.: Erie R. R.  
Supt.—J. D. Proctor.

#### **Jones & Laughlin Steel Co. (Otis Works)—**

Clark Ave.  
Brown electric unloaders, 2.  
Size of clam shells used, 5-ton.  
Capacity per 10 hours, 4,000 tons.  
McMyler Whirlies, 2.  
Size of clam shells used, 2-ton.  
Depth of water at dock, 19 feet.  
Maximum length of boat, 525 feet.  
R. R. R. Conn.: Cuyahoga Valley Ry., etc.  
Supt.—Harry Sheets.

**Republic Steel Corp (Corrigan-McKinney Division)—**

Hulett electric unloaders, 3.  
 Size of clam shells used, 10-ton.  
 Capacity per 10 hours, 10,000 tons.  
 Depth of water at dock, 22 feet.  
 Maximum length of boat, 500 feet, 56-foot beam.  
 Storage capacity, 850,000 tons.  
 R. R. Conn.: All roads entering Cleveland.  
 Supt.—C. E. Van Syckle.

**Republic Steel Corp. (D. P. C.)—**

Campbell Road, across from Otis Steel.  
 Electric Huletts, 2.  
 Capacity per 10 hours, 10,000 tons.  
 Length of dock, 1,025 feet.  
 Depth of water at dock, 21 feet 6 inches.  
 Storage capacity, 600,000 tons.  
 Supt.—C. E. Van Syckle.

**CONNEAUT, OHIO****Pittsburgh & Conneaut Dock Co.**

Electric Huletts, 5.  
 Size clam shells used, 17-ton.  
 Capacity per ten (10) hours—35,000 tons.  
 Depth of water at dock, 25 feet.  
 Storage capacity, 1,600,000 tons.  
 President and General Supt.—K. C. Stevens.

**DETROIT, MICH.****Great Lakes Steel Corp. (Hanna Furnace)—**

Location, Zug Island.  
 Unloading Bridges.  
 Size of Clam used.  
 Capacity per 10 hours, 10,000 Tons.  
 Depth of water at dock, 25 feet.  
 Can handle boats of any length.  
 Storage capacity, 1,050,000.  
 R. R. Conn.: D. T. & I., M. C., Short Line, Pere Marq. and Wabash.

**New Dock—**

New Dock.  
 Zug Island and Detroit River.

Wellman, 3.  
 Size of Clam, 15 Tons.  
 Capacity per 10 hours, 10,000.  
 Depth of water at dock, 25 feet.  
 Can handle boats 75 foot wide, 800 feet long.  
 Storage capacity, 500,000.  
 Mgr.—C. B. Betz.  
 Supt.—Dan Melachlan.

**Ford Motor Co. (Dearborn, Mich.)—**

River Rouge, Ore and Coal Dock.  
 Mead-Morrison, 1.  
 Size of clam shells used, 12-ton.  
 Capacity per 10 hours, 4,000 tons.  
 Huletts, 2.  
 Size of clam shells used, 12-ton.  
 Capacity per 10 hours, 4,000 tons each.  
 Storage capacity, 1,000,000 tons.  
 Depth of water at dock, 20 to 21 feet.  
 Maximum length of boat, 600 feet.  
 R. R. Conn.: D. T. & I.  
 Supt.—D. L. Newkirk.

**ERIE, PA.****The Erie Dock Co. (P. & E. Dock)—**

Pickands Mather Co., Mgrs., Cleveland, Ohio.  
 Location, East End of Harbor.  
 Foot of Parade Street.  
 Electric Hulett unloader, 1.  
 Size of clam shells used, 10-ton.  
 Mead Morrison, 2.  
 Size of clam shells used, 6 and 10-ton.  
 Capacity per 10 hours, 10,000 tons.  
 Depth of water at dock, 22 feet.  
 Can handle boats of any length.  
 Storage capacity, 300,000 tons.  
 R. R. Conn.: Pennsylvania and Pennsylvania Co.  
 Supt.—N. A. Lechner.

**GARY, IND.****United States Steel Co.—**

Capacity per ten (10) hours—30,000 tons.



Storage capacity, 4,500,000 tons.  
 Depth of water at dock, 27 feet.  
 General Supt.—J. H. Vohr.  
 Dock Supt.—W. A. Denman.

### HAMILTON, ONT.

#### The Steel Co. of Toledo, Ltd.—

Unloading machinery, 3 Mead Morrison bridges.  
 Size of clam shells, 12-ton.  
 Capacity per 10 hours, 10,500 tons.  
 Depth of water at dock, 22 feet.  
 Size of boat can handle, any size.  
 R. R. Conn.: T. H. & B., C. P. R., C. N. R.  
 Mgr.—H. G. Hilton.

### HURON, OHIO

#### The Nickel Plate Dock (Ore)—

Operator: The Cleveland Stevedore Co., foot of West 9th St.,  
 Cleveland, Ohio.  
 Hulett unloaders, 2.  
 Size of buckets used, 17 tons.  
 Capacity per 10 hours, 12,000 tons.  
 Browning Crane, 1.  
 Size of Clam used, 1½ tons.  
 Capacity per 10 hours, 500 tons.  
 Storage capacity, 600,000 tons.  
 Depth of water at dock, 26 feet.  
 Can handle boats of any size.  
 R. R. Conn.: Nickle Plate.  
 Supt.—Thos. F. Coakley.  
 Gen Foreman—Geo. W. Trook.

### INDIANA HARBOR, IND.

#### Inland Steel Co.

Dock No. 1, 5 Hoover & Masons.  
 Size of Clams used, 8½ tons.  
 Dock No. 2, 3 Unloading Bridges.  
 Size of Clams used, 12½ tons.  
 Dock No. 2, Unloading Machines.  
 Size of Clams used, 20 tons.  
 Capacity per 10 hours, 40,000 tons.  
 Depth of water at dock, 24 feet, 6 inches.

Storage capacity, 1,000,000 tons.  
 Can handle any size boat.

R. R. Conn.: Ind. Harbor Belt, New York Central, Penna., B. & O.,  
 E. J. & E. and Pere Marquette.  
 Supt.—James F. Peters.

#### Youngstown Sheet & Tube Co. (Mark Plant), Near Mouth of River—

Hoover & Masons, 2.  
 Size of clam shells used, 8 tons.  
 Capacity per 10 hours, 10,000 tons.  
 Storage capacity, 1,000,000.  
 Maximum length of boat, 650 feet.  
 Depth of water, 21 feet.  
 R. R. Conn.: Indiana Harbor, E. J. & E.  
 Supt.—Thomas Mc Ardle.

### LORAIN, OHIO

#### Baltimore & Ohio—

Brown electric unloaders, 3.  
 Size of clam shells used, 10-ton.  
 Capacity per 10 hours, 10,000 tons.  
 Depth of water at dock, 21 feet.  
 Can handle boats of any length.  
 Storage capacity, 350,000 tons.  
 R. R. Conn.: B. & O.  
 Supt.—W. C. Ekin, Terminal Agent

#### United States Steel Co., National Tube Div.—

National Tube Co., Pittsburgh, Pa.  
 Hulett automatic unloaders, 4; 2-12 ton, 2-20 ton.  
 Size of clam shells used, 12-ton and 20-ton.  
 Capacity per 10 hours, 28,000 tons.  
 Depth of water at dock, 25 feet.  
 Storage capacity, 1,900,000 tons.  
 Can handle boats of any length.  
 R. R. Conn.: Lake Terminal Railroad, N. Y. C. & St. L., A. & W. V.,  
 B. & O.  
 Gen'l Supt.—R. Urquhart  
 Dock Supt.—E. L. Kirkpatrick.

### NORTH TONAWANDA, N. Y.

#### Tonawanda Iron Corp.—

Mead-Morrison, 1.

Clam shells used, 10-ton.  
 Clean-up bucket, 7-ton.  
 Capacity per 10 hours, 4,000 tons.  
 Storage capacity, 250,000.  
 Depth of water, 18 feet 6 inches, 1928.  
 Can handle any size boat.  
 Mgr.—C. R. Holzworth.  
 Supt.—W. W. Heyman.

### PORT COLBORNE, ONT.

#### Canadian Furnace Co., Ltd.—

Locomotive cranes with clam shells and 54-inch magnets, 2.  
 McMyler Bridges, 2.  
 Size of clam shells used, 5-ton.  
 Capacity per 10 hours, 5,000 tons.  
 Depth of water at dock, 24 feet.  
 R. R. Conn.: C. N. Rys., T. H. & B., C. P. R., M. C.  
 Storage capacity, 400,000 tons.  
 Can handle boats of any length.  
 Supt.—D. J. Higgon.

### SAULT STE. MARIE, ONT.

#### Algoma Steel Corp., Ltd.—

Above Canadian Lock.  
 Weliman-Seaver, Morgan, 2.  
 Size of clam shells used, 3-ton.  
 Brown Hoist, 1.  
 Size of clam shell used, 7-ton.  
 Capacity per 10 hours, 6,000 tons.  
 Depth of water at dock, 21 feet.  
 Can handle boats of any length.  
 R. R. Conn.: C. P. R., A. C. & H. B.  
 Supt.—J. A. MacColl.

### SOUTH CHICAGO, ILL.

#### Interlake Iron Corp., Federal Furnace—

108th St. and Calumet River.  
 Brown Hoists, 3, on North Dock.  
 Size of clam shells used, 5-ton.  
 Capacity per 10 hours, 5,200 tons.  
 Depth of water at dock, 21 feet.  
 Storage capacity, 325,000 tons.

Can handle boats of any length.  
 Brown Hoists, 1, on South Dock.  
 Size of clam shells used, 10-ton.  
 Capacity per 10 hours, 3,500 tons.  
 Depth of water at dock, 21 feet.  
 Storage capacity, 375,000 tons.  
 Can handle boats of any size.  
 R. R. Conn.: L. H. B., Pennsylvania, and all roads entering Chicago.  
 Supt.—C. P. Johnson.

#### United States Steel Co. (North Dock)—

East 89th Street.  
 Four (4) Hoover & Mason unloaders—9 ton.  
 Capacity per ten (10) hours—15,000 tons.  
 Depth of water at dock, 23 feet.  
 Can handle boats of any length.  
 R. R. Conn.: E. J. & E. Ry., and all roads entering Chicago.  
 Storage capacity, 2,800,000 tons.  
 Supt.—H. Hochberger.

#### United States Steel Co. (South Dock)—

Seven (7) Hoover & Mason unloaders.  
 Size of clam shells used, 7-ton.  
 Capacity per 10 hours, 14,000 tons.  
 Storage capacity, 1,000,000 tons.  
 Depth of water, 23 feet.  
 Can handle boats of any length.  
 R. R. Conn.: E. J. & E. Ry. and all roads entering Chicago.  
 Supt.—H. Hochberger.

#### Republic Steel Corp., South Chicago, Ill.—

Location, Calumet River at 112th Street.  
 Hulett's, 2.  
 Size of unloading clams used, 17 tons.  
 Storage capacity, 250,000 tons coal, 450,000 tons ore and 85,000 tons stone.  
 Depth of water at dock, 24 feet.  
 Can handle any size ship.  
 R. R. Conn.: All roads entering Chicago.  
 Supt.—Paul Johnson; Res. Phone CE-6917.  
 Plant Phone Bay Port 2000.

#### Youngstown Sheet & Tube Co. (Iroquois)—

South Side of Calumet River.

Brown Hoists, 2.  
 Size of clam shells used, 7½-ton.  
 Mead-Morrison, 1.  
 Size of clam shells, 12-ton.  
 Total capacity per 10 hours, 10,000 tons.  
 Hoover & Mason, 1.  
 Size of clam shells used, 8-ton.  
 Depth of water at dock, 22 feet.  
 Storage capacity, 1,250,000 tons for ore, stone and coal.  
 Can handle boats of any length.  
 R. R. Conn.: Chicago Short Line.  
 Supt.—R. E. Lionhood.

**International Harvest Co. (Wisconsin Steel Works)—**

2701 East 106th Street.  
 Brown electric unloaders, 3.  
 Size of clam shells used, 6-ton.  
 Capacity per 10 hours, 8,000 tons.  
 Storage capacity, 450,000 tons.  
 Depth of water at dock, 21 feet.  
 Maximum length of boat, 600 feet.  
 Gen. Supt.—L. B. Robertson; Supt.—W. E. Brewster.

**TOLEDO, OHIO**

**C. & O. Ore Dock, Toledo—**

Entrance Maumee River at Presque Isle, East Side.  
 Electric Hulett's, 3.  
 Size of clam shells used, 17-ton.

Capacity per 10 hours, 12,000 tons.  
 Depth of water at dock, 23 feet.  
 No storage capacity at present.  
 Can handle any size boat.  
 R. R. Conn.: C. & O.  
 Supt.—J. W. Marshall.

**Interlake Iron Corp.—**

Location, North of Ash-Consaul Bridge, east side.  
 Toledo Furnace Plant.  
 Electric Hoover & Masons 3.  
 Size of clam shells used, 5-ton.  
 Capacity per 10 hours, 4,000 tons.  
 Depth of water at dock, 22 feet.  
 Can handle boats of any length.

R. R. Conn.: Nickel Plate, Toledo Terminal.  
 Supt.—Geo. H. Kartman.  
 Gen. Supt.—John B. Hazle.

**The Lakefront Dock & Railroad Terminal Co.—**

On South Shore of Maumee Bay.  
 Capacity per 10 hours, 12,000 tons.  
 Storage capacity, 7,000 cars including supporting yards.  
 R. R. Conn.: Nickel Plate, and Toledo Terminal, N. Y. C., B. & O.,  
 N. & W., C. & O., Vgn. and W. L. E.  
 Gen. Supt.—C. F. Meyers.  
 Dock Supt.—C. C. Pund.

Railway	Location	Dock No.	No. of Pockets	Car Capacity per Pocket	Capacity Gross Tons	Cu. Ft. per Pocket	Height Water to Center of Hinge Hole	Height Water to Deck of Dock	Width of Dock	Length of Spouts	Length of Dock	Angle of Pocket	Date of Construction
C. & N. W.	Escanaba, Mich.	5	370	5 at 50 tons	92500	4142	37' 9 5/8"	70' 9"	51' 6"	32' 1 1/2"	2220'	45* 0'	1910 154 Pkts. not used
C. & N. W.	Escanaba, Mich.	6	320	5 at 50 tons	80000	4260	40' 0"	73' 1 1/2"	51' 6"	35' 4 1/2"	1920'	45* 0'	1925
C. & N. W.	Ashland, Wis.	3	340	5 at 50 tons	85000	4260	40' 4 3/4"	73' 5 1/4"	51' 6"	35' 4 1/2"	2040'	45* 0'	1917 200 Pkts. 1921 140 Pkts.
	Total		1030		257500								
D. M. & I. R.	Two Hbrs., Minn.	1	224	5 at 50 tons	56000	4532	39' 3 1/4"	75' 2"	51' 8"	34' 0"	1344'	48* 0'	1912 X
D. M. & I. R.	Two Hbrs., Minn.	2	228	5 at 50 tons	68400	5360	40' 4"	80' 0"	56' 8"	35' 0"	1368'	48* 0'	1916 X
D. M. & I. R.	Two Hbrs., Minn.	6	148	6 at 50 tons	44400	4820	40' 0"	74' 2"	51' 3/4"	34' 0"	888'	45* 0'	1916 & 1924 X
	Total		600		168800								
D. M. & I. R.	Duluth, Minn.	5	384	6 at 50 tons	115200	5313	40' 8"	80' 5"	56' 0"	36' 0"	2304'	47* 30'	1915 X
D. M. & I. R.	Duluth, Minn.	1	384	8 at 50 tons	153600	6560	40' 4"	84' 5"	60' 0"	36' 0"	2304'	47* 30'	1919 X
	Total		768		268800								
Gt. No. Ry. Co.	Superior, Wis.	1	374	7 at 50 tons	130900	5620	41' 2"	80' 8"	56' 0"	36' 0"	2244'	47* 30'	1926 27—28 X
Gt. No. Ry. Co.	Superior, Wis.	2	350	7 at 50 tons	122500	5620	41' 0"	80' 6"	56' 0"	36' 0"	2100'	47* 30'	1923 X
							38' 9"						1942-1943 160 Pkts.
Gt. No. Ry. Co.	Superior, Wis.	3	326	6 at 50 tons	97800	5100	38' 9 1/2"	77' 0"	59' 8"	34' 0"	1956'	47* 30'	1944-45 166 Pkts.
Gt. No. Ry. Co.	Superior, Wis.	4	302	6 at 50 tons	90600	5035	40' 2"	75' 0"	62' 6"	34' 6"	1812'	47* 30'	1911 X
	Total		1352		441800								
No. P. Ry. Co.	Superior, Wis.	1	102	7 at 50 tons	35700	5490	40' 6"	80' 0"	57' 2"	34' 0"	612'	47* 30'	1913 X
	Extn.	1	100	7 at 50 tons	35000	5600	39' 9"	80' 0"	59' 2"	34'	600'	47* 30'	1917 X
	2nd Extn.	1	108	7 at 50 tons	37800	5600	39' 7"	80' 0"	59' 2"	34'	648'	47* 30'	1926 X
	Total		310		108500								
D. S. S. & A.	Marquette, Mich.	6	150	5 at 75 tons 7 at 50 tons	or 56250	5940	43' 3"	85' 7"	59' 0"	36' 0"	900'	47* 30'	1931 X
Mpls. St. P. & S. S. M. Ry.	Ashland, Wis.	2	300	7 at 50 tons	105000	5100	42' 0"	81' 0"	59' 0"	34' 6"	1800'	47* 30'	1917 150 Pkts. 1924 150 Pkts. X
Lake Sup. & Ishp. R. R.	Marquette, Mich.	2	200	5 at 50 tons	50000	4590	43' 0"	75' 0"	54' 0"	100-35'-0" 100-36'-0"	1200'	45* 0'	1912 X
Can. Natl. Rys.	Pt. Arthur, Ont.		100	300 tons	30000	6100	42' 10"	82' 6"	64' 8"	30' 0"	600'	47* 30'	1945 X

Algoma Cent. &amp; Hudson Bay Ry.

Michipicoten, Ont.

Loading Bin Capacity 1200 gross tons—with Belt Conveyor System for loading vessels—Built in 1939.

DULUTH, MISSABE AND IRON RANGE RAILWAY COMPANY

(X) Reinforced concrete and steel.

(a) At C. &amp; N. W. Dock No. 5 Escanaba, 154 Pockets out of Service since May, 1948.

(\*) Symbol designates degrees on second last column.



# COAL AND MISCELLANEOUS DOCKS OF THE GREAT LAKES

## ACME, MICH.

### Rickard Co., A. W.

Located on Traverse Bay.  
Office: 321 Bay St., Traverse City.  
Use self-unloading boats only.  
Method of storage, direct to dock.  
Storage capacity 32,000 tons.  
Depth of water at dock 20 feet.  
Can handle any size boat and beam.  
R. R. Conn. M. & N. E., P. M., Penna.

## ALABASTER, MICH.

### United States Gypsum Co.

Dock located out in Lake Huron.  
Depth of water at dock 23 feet.  
Can load any size steamer.  
R. R. Conn.: Erie & Michigan.  
Length of dock 400 feet.

## ALGOMA, WISCONSIN

### Algoma Fuel Company.

Location Shore end of Government Pier  
north side of entrance.  
Self unloading vessels only.  
Storage Capacity 10,000 tons.  
Depth of water at dock 16 feet.  
Maximum length of boat 450 feet, beam  
55 feet.

## ALGONAC, MICH.

### Townsend Sons, Inc., G.

Location in north channel of St. Clair  
River.  
Depth of water at dock 16 feet.  
Self unloading vessels only.  
Storage Capacity 5,000 tons.  
Maximum length of boat 500 feet.

## ALPENA, MICH.

### Bishop Coal Co.

Location south side of Thunder Bay  
River.  
Depth of water at dock 20 feet.  
Self unloading vessels only.  
Storage Capacity 10,000 tons.  
Any size boat.

### Consumers Power Co. (Piepkorn Dock).

Location south side mouth of Thunder  
Bay River.  
Depth of water at dock 18 feet.  
Self unloading vessels only.  
Storage Capacity 20,000 tons.  
Can handle any length—50 ft. beam.

## Diamond Alkali Co.

Thunder Bay Quarries Div.  
Located in harbor.  
Address of operator: 1541 Ford Ave., Al-  
pena, Mich.  
Manager, A. Gaylord Linder.  
Depth of water at dock 19 feet, turning  
basin and channel 22 feet.  
Length of dock 750 feet.  
Length of slip 675 feet.  
Width 125 feet.  
Superintendent—J. A. Reinke.

## Eales Coal Company.

Location west side Thunder Bay River  
next to Piepkorn.  
Depth of water at dock 18 feet.  
Self unloading vessels only.  
Storage Capacity 4,000 tons.  
Can handle any size vessel.

## Fletcher Paper Co.

Location  $\frac{3}{4}$  mile above Second Ave.  
Bridge north bank of Thunder Bay  
River.  
Depth of water at dock 22 feet.  
Self unloading vessels only.  
Storage Capacity 25,000 tons.  
Can handle any length ship.

## Huron Portland Cement Co.

Location on Thunder Bay.  
Depth of water at dock 19 feet.  
Self unloading vessels only.  
Storage Capacity 100,000 tons.  
Can handle any size boat.  
R. R. Conn.: D & M.

## Municipal Dock (City Dock)

Located west side of Thunder Bay River.  
Operator: City of Alpena; Bert Home,  
Purchasing Agent.  
Use self-unloading boats only.  
Length of dock 116 feet.  
Depth of water at dock 18' 6".  
Can handle any length boat  
Storage capacity 1,000 tons.

## Oles Coal Company.

Location west side of Thunder Bay River  
350 ft. north of Second Ave. Bridge.  
Depth of water at dock 18 feet.  
Self unloading vessels only.  
Storage Capacity 15,000 tons.  
Maximum length of boat 600 ft. any beam.

## Piepkorn, Richard.

Location first dock on south west side  
mouth of Thunder Bay River.  
Depth of water at dock 18 feet.  
Self unloading vessels only.  
Storage Capacity 40,000 tons.  
Can handle any length ship.

## Townsend Co., R. A.

Location 150 ft. above Second Ave. Bridge.  
Depth of water at dock 18 feet.  
Self unloading vessels only.  
Storage Capacity 20,000 tons.  
Can handle any length ship.

## AMHERSTBURG, ONT., CANADA

### Amherst Fuel & Supply, Ltd.

Self unloading vessels only.  
Storage Capacity 15,000 tons.

### Brunner, Mond Co. Canada Ltd.

Location Lime Kiln crossing.  
Depth of water at dock 20 feet.  
Self unloading vessels only.  
Storage Capacity 30,000 tons.  
Can handle any size boat.

## ASHLAND, WISCONSIN

### Clarkson Coal & Dock Co.

Location between C. & N. W. and Soo  
Ore Docks.  
Unloading equipment, Clyde Electric  
Whirley 4-4 $\frac{1}{2}$  ton clam.  
Can handle any size boat.  
Operates day and night.  
Unloading Capacity 200 tons per hour.  
Storage Capacity 100,000 tons.  
Depth of water 21 feet.

### Reiss Coal Co.—Dock No. 1.

Location next to C&NW Ore Dock.  
1 Heyl & Patterson Electric Bridge.  
Size of clam shell used, 8 tons.  
Size of clean up bucket 4 ton, 24' spread.  
Capacity per day 400 tons per hour.  
Dock operates day and night.  
Storage Capacity Bituminous 150,000,  
Anthracite 30,000 tons.  
Depth of water at dock 20 feet.  
Can handle any size ship.  
R. R. Conn.: C. N. W., Soo, N. P.

### Reiss Coal Co.—Dock No. 2 (P&A).

Location west end of Ashland Harbor.

## 1 Mead-Morrison.

Size of clam shell used, 5 tons.  
Other buckets used, 2 ton clean up  
bucket.  
Capacity per 10 hours, 3,000 tons.  
Operates day and night.  
Storage Capacity Bituminous 250,000 tons.  
Depth of water at dock 20 feet.  
Maximum length of ship any size.  
R. R. Conn.: St. Paul, M. & O., Soo, N.  
P. and N. W.

## ASHTABULA, OHIO

### New York Central Dock No. 7.

Location E. bank of Ashtabula River,  
2000 feet from entrance.  
Used for receipt of stone, limestone &  
coke.  
Self unloading vessels only, unload into  
hopper.  
Storage Capacity 20,000 tons on ground.  
Length of dock 500 feet. Depth of water  
23 feet.

## BARAGA, MICHIGAN

### Gitchee Gumee Oil Co.

Location Foot of Main St., south dock,  
Depth of water at dock 18 $\frac{1}{2}$  feet.  
Storage Capacity 10,000 tons.  
Self unloading vessels only.  
Maximum length of ship 550 feet.  
R. R. Conn.: D. S. S. & A.

## BAY CITY, MICH.

### Aetna Portland Cement Co.

Dock located at Essexville, Mich.  
1 industrial locomotive crane.  
Size of bucket used, 1 yard.  
Storage Capacity 90,000 tons.  
Depth of water at dock 19 feet.  
R. R. Conn: M. C., P. M., G. T., D. & M.

### Consumers Power Company.

Location mouth of Saginaw River.  
Depth of water at dock 20 feet.  
Self unloading vessels only.  
Storage Capacity 700,000 tons.  
Can handle any size vessel.  
Note: Private Dock.

### Dow Chemical Co., Midland, Mich.

Location Mouth of Saginaw River at  
North Bay City.  
Use self unloading ships only.

1 Traveling hopper, capacity 130 tons.  
1 Caterpillar crane, 70 ft. boom, 2 yd. bucket.  
Length of dock 1,000 feet.  
Turning basin for largest vessels.  
Depth of water at dock 22 feet.  
R. R. Conn.: M. C., P. M., G. T., D. & M.

#### Gate Coal Company.

Location on east side of Saginaw River  
¾ mile south of Third St. Bridge.  
Depth of water at dock 17½ feet.  
Self unloading vessels only.  
Storage Capacity 25,000 tons.  
Can handle any size vessel.  
R. R. Conn.: M. C. and P. M.

#### Harris Bros. Coal Co.

Location second bridge above M. C. R. R. bridge.  
Depth of water at dock 17 feet.  
Self unloading vessels only.  
Storage Capacity 15,000 tons.  
R. R. Conn.: M. C.

#### Phillips Marine Terminal Dock Co.

Location Foot of Roy St.  
Self unloading vessels only.  
Can handle any size boat.  
Storage Capacity 20,000 tons.  
Draft 20 feet.

#### Randall, Hazen.

Location: West of Linda St. Bridge.  
Office: Heights, Mich.  
Use self-unloading boats only.  
Storage capacity 2,500 tons.  
Depth of water at dock 14 feet, channel 19' 6".  
Length of dock 350 feet.  
Can handle 450 foot boat with any beam.

#### Williams Coal Co., A. S.

1315 Sherman St.  
Use self-unloading boats only.  
Storage capacity 10,000 tons.  
Depth of water at dock 19 feet.  
Can handle any size boat.  
Length of dock 700 feet.  
R. R. Conn.: M. C.

#### Williams Coke Dock.

South of Grand Trunk Railroad Bridge.  
Operator: A. S. Williams & Co., 1315 Sherman St.  
Use self-unloading boats only.  
Storage capacity 3,500 tons.  
Depth of water at dock 19 feet.

Can handle any size boat.  
Length of dock 700 feet.  
R. R. Conn.: M. C.

#### BELLEVILLE, ONT.

##### Belleville Harbor Comm. Dock.

Government Dock.  
Self unloading vessels only.  
Storage Capacity 20,000 tons.  
Depth of water at dock 16 feet.  
Depth of water in channel 13 ft.  
Maximum length of ship 250 ft.-43 beam.  
R. R. Conn.: CNR and CPR.

##### Canada Cement Co., Ltd.

Location Bay of Quinte, north shore  
Self unloading vessels only.  
Maximum size vessel, Canal size.  
R. R. Conn.: C. P. and C. N.  
Depth of water 12½ feet.

##### Moirs Fuels, Ltd.

(Formerly Anderson Co., F. S.)  
Location of dock Rednersville, Bay Quinte & Belleville, Ont., Can.  
Self unloading vessels only.  
Storage Capacity 5,000 tons.  
Draft, 12-13¼ feet.

##### Government Dock—Located south of Front Street. (next to Schuster Co.)

Use self-unloading boats only.  
Size of buckets used 400 pounds.  
Capacity per 10 hours 200 tons.  
Storage capacity 10,000 tons.  
Depth of water at dock 11 feet, channel 16 feet.  
R. R. Conn.: G. T., C. P. R., C. N. Ry.

##### Schuster Co., Ltd.

Location foot of Front St.  
Depth of water at dock 14 feet.  
Self unloading vessels only.  
Storage Capacity 20,000 tons.  
Maximum length of ship 250 ft.-43 ft. beam.  
R. R. Conn.: C. N.

##### Weaver Coal Co., Ltd., F. P.

(Use facilities of Schuster Co.)

#### BENTON HARBOR, MICH.

##### Consumers Coal Co.

Location in ship Canal, at end of Pau  
Pau River 300 feet from St. Joe River.  
Self unloading vessels only.  
Storage Capacity 100,000 tons.

Depth of water at dock 21 feet.  
Can handle any size ship.  
R. R. Conn.: Pere Marquette.

#### Ireland & Lester Coal Co.

Location on Ship Canal.  
Self unloading vessels only.  
Depth of water at dock 16 feet.  
Storage Capacity 5,000 tons.  
Can handle any size ship.

#### Ireland & Lester Coal Co. (Stone Dock).

Location on St. Joe River just west of old  
G. & M. dock.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage Capacity 100,000 tons.  
Can handle any size ship.

#### BOYNE CITY, MICH.

##### Clark Coal Co.

Location east end of Lake Charlevoix.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Maximum length 550 ft.-50 ft. beam.  
Storage Capacity 20,000 tons.

##### Howes Leather Company, Inc.

Self unloading vessels only.  
Storage Capacity 15,000 tons.

#### BRITT, ONTARIO, CANADA

##### Canadian Pacific Railway.

Magnetawan River, Georgian Bay, 1 mile east of Rabbit Island.  
2 Mead Morrison.  
Size of clam shells used, 2 ton.  
Capacity per 10 hours, 5,000 tons.  
Storage Capacity 450,000 tons.  
Depth of water at dock 18½ feet.  
Maximum length of ship 420', 50' beam.  
R. R. Conn.: Canadian Pac. Rwy.

##### Canada Coal, Ltd.

Note: Use facilities of Canadian Pacific Railway Co. Dock.

##### Empire-Hanna Coal Company, Ltd.

(Use facilities of Canadian Pacific Rwy.)

##### Valley Camp Coal Co. of Canada, Limited

Note: Use facilities of Canadian Pacific R. R.

#### BROCKVILLE, ONT.

##### Central Canada Coal Co., Ltd.

Location-Water St.  
Self unloading vessels only.

Depth of water at dock 20 feet.  
Storage Capacity sheds 12,000 tons-wharf 4,000 tons.  
Maximum length 300' any beam.  
R. R. Conn.: C. P. R. and C. N. R.

#### Reynolds Coal Co., W. B.

Location Foot of Dethume St.  
Self unloading vessels only.  
Depth of water at dock 17 feet.  
Storage Capacity 25,000 tons.  
Can handle any size boat.  
R. R. Conn.: C. P. R.  
Draft 18 feet.

#### BRUCE MINES, ONT.

##### Bruce Mines Trap Rock Co., Ltd.

Location Upper end of Georgian Bay.  
Storage Capacity 75,000 tons.  
2 belt conveyors, 80 feet apart.  
Capacity per 10 hours, both conveyors about 20,000 tons.  
Height of spout from water 45 feet.  
Height of dock from water 15 feet.  
Length of spout 15 feet.  
Length of dock 180 feet.  
Depth of water at dock 16 feet forward, 20 feet aft.

#### BUFFALO, N. Y.

##### Ashtabula & Buffalo Dock Company

Note: See Ashtabula & Buffalo Dock Co. under ore unloading docks.

##### Bethlehem Steel Co.

Note: See Bethlehem Steel Co. under ore unloading docks.

##### Buffalo Niagara Electric Co.

Dock located at Harriet on Niagara River.  
Office: Electric Bldg.  
Use self-unloading boats.  
Storage capacity 100,000 tons.  
Depth of water at dock 22 feet.  
Can handle any size boat.

##### City Municipal Piers.

Location foot of south Michigan St.  
There are no buildings on these piers.  
Depth of water at docks 21 feet.  
Piers or slips are 1,200 feet long.  
One 600 foot ship and 500 foot can lay at each of the three sides of the piers.

##### Delaware Contracting Corp. (N. Y. State

Barge Terminal.)  
73 West Eagle St.

Docks located at State Barge Terminal (Outer Harbor.)  
Docks located at Erie R. R. Trestle (Blackwell Canal).  
2 McMyler Type K (mounted on floating scows).  
Length of booms 92 feet.  
Size of clam shell buckets used  $2\frac{1}{2}$  yards.  
Capacity per crane per 10 hours 1,000 tons.  
Depth of water at dock 24 feet.  
Can handle any size ship up to 600 foot length.  
R. R. Conn.: N. Y. C., Erie, L. V.

#### Erie Basin Terminal.

Location Buffalo Harbor foot of W. Genesee St.  
Operated by N. Y. State Dept. Public Works-Div. Canals & Waterways.  
2-3 ton Electric Cranes.  
3 Privately owned 15 ton floating cranes.  
Capacity for unloading per ten hours, 2,000 tons.  
Depth of water at dock 22 feet.  
Can handle any size boats.  
R. R. Conn.: N. Y. C.

#### Foundry Supply, Inc. (Sand Dock).

Location (Old Erie Coal Dock).

#### Great Lakes Portland Cement Co.

Location Fuhrman Drive.  
Self unloading vessels only.  
Depth of water at dock 21 feet.  
Storage Capacity 20,000 tons.  
Can handle any size boats.  
R. R. Conn.: Pennsylvania.

#### Hanna Furnace Corp.

Note: See Hanna Furnace Corp. under ore unloading docks.

#### Keley Island Line & Transport Co. (Stone Dock).

Location just below Delwood Elevator.

#### Lackawanna Steel Co. (Steel Dock).

2 Stationary rigs.  
Capacity per 24 hours 2,400 tons.  
Can load any length ship.

#### Lehigh Portland Cement Co.

Location north side of Union Canal between highway bridge and harbor.  
Self unloading vessels only.  
Depth of water at dock 22 feet.  
Storage Capacity 100,000 tons.  
Can handle any size boat.

R. R. Conn.: Pennsylvania.

#### Michigan Limestone & Chemical Co. (Stone Dock).

Location above old Hamburg Furnace.

#### Rochester & Pittsburgh Coal Co.

Dock located foot Ganson St.  
Office: Prudential Bldg.  
Use self-unloading boats.  
Conveyor equipment.  
Depth of water at dock 22 feet.  
Can handle any size boat.  
R. R. Conn.: B. & O.

#### Republic Steel Corp.

Location Upper Buffalo River.  
1 Mead Morrison, 2 Brown Hoists.  
Total unloading capacity per ten hours 6,000 tons.  
Storage Capacity 25,000 tons.  
Depth of water at dock 23 feet.  
Can handle any size vessel.  
R. R. Conn.: DL&W, B&O and So. Buffalo Rwy.

#### Terminals & Transportation Co. of America.

Location north of south breakwall entrance next to Ford Plant.  
Package freight dock.  
Depth of water at dock 20'.  
Can handle any size ship.  
R. R. Conn.: Lehigh Valley.

#### BUFFINGTON, IND.

#### Universal Atlas Cement Co.

1 Mead-Morrison Bridge with movable apron.  
Size of clam shell 10 tons.  
Capacity per 10 hours 4,000 tons.  
Storage Capacity 2,000,000 tons.  
Depth of water 22 feet.  
Can handle any size ship.  
R. R. Conn.: E. J. & E. R. R.

#### CALCITE (Roger City), MICH.

U. S. Steel Co. Michigan Limestone Div.  
Conveyor belt used for fueling.  
Capacity 1,000 tons per hour.  
Depth of water at docks 21 feet.  
R. R. Conn.: D. & M.

#### U. S. Steel Co. Michigan Limestone Div.

Limestone stored over concrete tunnels and loaded by one or four conveyors.  
Four conveyors on one side of slip and

one on other side.  
Loading Capacity 2,000 to 4,000 tons per hour.  
Storage Capacity 190,000 tons.  
Depth of water at dock 23 feet.  
Can handle any size ship.

#### CAPE VINCENT, N. Y.

#### Dominion American Coal & Fueling Co., Inc.

Location on St. Lawrence River.  
Depth of water at dock 17 feet.  
Storage Capacity 1,000 tons.

#### CARDINAL, ONT.

#### Canada Starch Co., Ltd.

2 Brownhoist McMyler cranes and one marine leg.  
Depth of water at dock 16 feet.  
Storage Capacity—coal 50,000 tons, corn 425,000 bushels.  
Capacity per 10 hours, 500 tons coal.  
70,000 bushels grain.  
Maximum length of ship canal size.  
R. R. Conn.: C. & N.

#### Redden Coal Co., Ltd.

Location west of Cardinal Locks.  
Self unloading vessels only.  
Depth of water at dock 16 feet.  
Storage Capacity 15,000 tons.  
R. R. Conn.: C. & N.

#### CHARLOTTE, N. Y.

#### Charlotte Dock Co.

Dock located on Genesee River 3 miles from Lake Ontario.  
Office: 150 Main St., Rochester.  
1 link belt equipped with 8 pockets with chutes, with a capacity of 1000 tons per hour.  
Fueling facilities for boats.  
Depth of water at dock 22 feet.  
Length of dock 950 feet.  
R. R. Conn.: B. & O.

#### CATHAM, ONT.

#### Crow Coal Co.

Location at Third St.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage Capacity 25,000 tons.  
Maximum length of boat 200'.

#### Daniels Coal & Wood Service.

Location foot of St. Clair on Thomas River.

Self unloading vessels only.  
Depth of water at dock 16 feet.  
Storage Capacity 20,000 tons.  
R. R. Conn.: P. M.

#### CHEBOYGAN, MICH.

#### Cheboygan Fuel Co.

Location on left side of river just before the bridge.  
Self unloading vessels only.  
Depth of water at dock 19 feet.  
Storage Capacity 10,000 tons.  
Can handle any size ship.

#### North American Paper & Pulp Co.

(Use facilities of Olds Dock).

#### Olds Dock & Coal Company.

Location west side Cheboygan River.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage Capacity 25,000 tons.  
Can handle any size ship.  
R. R. Conn.: N. Y. C. and D. & M.

#### CHICAGO, ILL.

#### (North Branch and South Branch) (See South Chicago Also)

#### Anchor Storage Co.

Location: Main River one block east Michigan Ave. Bridge.  
Office: 219 E. North Water St.  
1 electric 5 ton crane with 32 foot boom.  
4 portable electric conveyors.  
Inside covered storage 15,000 tons.  
Size of warehouse 225,000 square feet.  
Sprinkling system (dry system).  
Length of dock 200 feet.  
Can handle any size boat, but handle package freight only.  
R. R. Conn.: C. & N. W. and all roads entering Chicago.

#### Consumers Company.

Location foot of E. So. Water St.  
Self unloading vessels only.  
Depth of water at dock 22 feet.  
Storage capacity 7,000 tons.  
Can handle any size ship.  
R. R. Conn.: I. C.

#### Crerar-Clinch Coal Co.

Location mouth of Chicago River south side.  
Self unloading vessels only.  
Depth of water at dock 20 feet.  
Storage capacity 10,000 tons.



Can handle 500 x 30 ft. ship.  
R. R. Conn.: I. C.

#### Eldridge Coal & Coke Co.

Location, North Branch Chicago River.  
Self unloading vessels only.  
Storage Capacity 4,000 tons.  
Depth of water in channel 18 ft.  
Maximum length of vessel 400 ft.  
R. R. Conn.: C. & N. W.

#### Hedstrom Coal & Dock Co. (North Ave.)

Storage capacity 30,000 tons.  
Depth of water 18 feet, 6 inches.  
Maximum length of ship 465 feet-beam 54 feet.

#### Hinners Co., Geo. R.

Location-north branch Chicago River.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage capacity 8,000 tons.  
R. R. Conn.: C. & N. W.

#### Holland Coal Co.

Location North Branch, Chicago River.  
3-30 ton cranes.  
Size boat, Bulk freighters and barges.  
Length of dock 385 feet.  
Unloading Capacity 300 tons per hour.  
Storage Capacity 25,000 tons.  
Draft 19 feet.

#### Hoskins Coal & Dock Co.

Hoskins Coal Dock No. 1.  
Location End of Chicago River and Ogden Slip.  
Unloading equipment, 2 cranes, (1-6 ton, 1-3 ton).  
Length of dock 1,890 feet.  
Draft 19 feet.  
Storage Capacity 100,000 tons.

#### Material Service Corp.

(Yard 1)—901 North Sagamore St.  
Location North Branch.  
8 hoppers, capacity 900 tons.  
Storage capacity 50,000 yards.  
2 McMyler with 50 foot booms, with 2 yard clam-shells.  
2 Link Belt with 50 foot booms, with 2 yard clamshells.  
Depth at dock 18 feet 6 inches.  
Length of dock 930 feet.  
Can handle any size boat.  
R. R. Conn.: C. & N. W.  
Manager—Charles Lahan.  
Superintendent—Carl Zier.

#### Material Service Corp. (Yard 12).

33 North LaSalle St.  
At 33rd St. and Racine.  
Located in South Branch.  
1 Link Belt with 50 foot boom.  
1 30-ton locomotive crane with 50 foot boom.  
Size of clamshells used 1½ and 2 yard.  
Storage capacity 40,000 yards.  
5 hoppers, capacity 600 tons.  
Depth of water at dock 16 feet.  
Length of dock 1,000 feet.  
Can handle 450 foot boat with 50 foot beam.  
R. R. Conn.: Wabash.

#### Material Service Corp.

Location South Branch at Eleanor St.  
Office 33 North LaSalle St.  
Storage Capacity 60,000 tons.  
8 hoppers, capacity 900 tons each.  
Length of dock 600 feet.  
Depth of water at dock 18' 6".  
Can handle any size boat.  
R. R. Conn.: Chicago & Alton.

#### Petersen Coal Co. (Eureka Coal & Dock Co.)

Location North Branch Chicago River at Division St.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage capacity 16,000 tons.  
Can handle any size ship.  
R. R. Conn.: Milwaukee Road.

#### Seng Waterway Warehouse Co.

Location Polk St. Bridge (South Branch)  
Office 310 W. Polk St.  
Inside covered storage 1,000 carloads.  
Size of warehouse 435,000 sq. feet of reinforced concrete.  
Length of dock 420 feet.  
R. R. Conn.: Pennsylvania.

#### CLAYTON, N. Y.

#### Consaul-Hall Coal Co., Inc.

Location Main Channel St. Lawrence River.  
Fuel dock.  
Depth of water at dock 20 feet.  
Can handle any size ship.  
R. R. Conn.: N. Y. C.

#### CLEVELAND, OHIO

#### Allied Oil Co., Inc.

Location Whiskey Island old River Channel.

#### Oil Terminal.

Storage capacity 15,500,000 gallons.  
Depth of water at dock 19 feet.  
Can handle any size oil tanker.  
R. R. Conn.: Pennsylvania.

#### Breckling Coal & Supply Co.

Breckling Dock on East side of Cuyahoga River 500 ft. north Scranton Road Bridge. Approximately 800 ft. Dock Frontage, average depth of water 18 ft. Storage Capacity 50,000 tons. Loading of Materials by locomotive crane and Bucket Loaders into trucks and bins. 1951 output 100,000 tons. Principal business; Ready Mixed Concrete, bulk Sand and Crushed Stone.

#### Cleveland Builders' Supply Co. (Dock No. 4).

Location Merwin & Columbus Ave.  
1 McMyler Whirlie with a 50' boom.  
Size of clam shell used, 2 ton.  
Capacity per 10 hours 1,000 tons.  
Depth of water at dock 24 feet.  
Storage capacity 50,000 tons.  
Maximum length of ship 500 feet.  
R. R. Conn.: Big 4.

#### Cleveland Builders' Supply Co. (Dock No. 5).

Location Ft. of E. 40th St. on Lake Erie.  
Self unloading vessels only.  
Depth of water at dock 15 feet.  
Storage capacity 100,000 tons.  
Can handle any size ship.  
R. R. Conn.: N. Y. C.

#### Cleveland Stevedore Co.

Location Whiskey Island Cuyahoga River.  
Package freight dock.  
Capacity per 10 hours 1,800 tons steel.  
Storage capacity unlimited.  
Can handle any length ship.  
Depth of water at dock 21 feet.  
R. R. Conn.: Pennsylvania.

#### Cleveland Stevedore Company, The

Location Cuyahoga River and Riverbed Ave.  
Office foot West 9th and Front Sts.  
4 McMyler locomotive cranes.  
1-35 ton and 3-40 ton.  
Size of buckets used 2 cu. yds.  
Method of storage, open.  
Depth of water at dock, 22 feet.  
Can handle 500 ft. maximum length boat.  
R. R. Conn.: B. & O.  
Supt.—Carroll Priest.

#### Cleveland Stevedore Co., Dock No. 23

Location foot West 9th and Front Sts.  
4 McMyler locomotive "40 ton J type."  
Length of boom 75 and 50 feet.  
Capacity per 10 hours, 1,000 tons.  
Depth of water at dock, 20 feet.  
Can handle any size ship.  
Material handled direct to cars.  
R. R. Conn.: Pennsylvania.  
Supt.—Carroll Priest.

#### Grasselli Chemical Co.

Sulphur Dock.  
Location upper end of Cuyahoga River.  
2 locomotive cranes.  
Capacity per 10 hours 500 tons.  
Storage capacity 50,000 tons.  
Depth of water at dock 10 feet.  
Can handle ship up to 250', boom 60'.  
R. R. Conn.: B. & O.

#### National Terminal Corp. (Overlakes Terminal).

Location foot of E. 54th St.  
2 Beyer Cranes.  
1 55' boom-1 45' boom.  
Capacity 3 tons, radius 30 ft.  
Unloading capacity per hour 60 tons.  
Loading capacity per hour 60 tons.  
Storage capacity 30,000 tons.  
Length of dock 550 feet.  
Depth of water at dock 20 feet.  
R. R. Conn.: N. Y. C.

#### National Terminal Corp.

Location Main St. Bridge on Cuyahoga River.  
Package freight dock.  
Depth of water at dock 20 feet.  
Maximum length of ship 500', beam 50'.  
R. R. Conn.: B. & O.

#### COBOURG, ONT.

#### Empire-Hanna Coal Co., Ltd.

Self unloading vessels only.  
Depth of water at dock 15 feet.  
Storage capacity 2,500 tons.  
Maximum length of ship 250'.

#### Rochester & Pittsburgh Coal Co., Ltd.

Location in Harbor.  
Self unloading vessels only.  
Depth of water at dock 14½ feet.  
Maximum length of ship 250'.

#### Valley Camp Coal Co.

Location in Harbor.  
Self unloading vessels only.



Storage capacity 6,000 tons bituminous.  
Depth of water at dock 16 feet.  
Maximum length of ship, canal size.

### COLLINGWOOD, ONT.

**Collingwood Shipyards, Ltd.**  
Location Nottawassaga Bay, south end of Georgian Bay.  
Self unloading vessels only.  
Depth of water at dock 15 feet.  
Storage capacity 4,000 tons.  
Length of dock 200 feet.

### CONNEAUT, OHIO

**Pittsburgh & Conneaut Dock Co.**  
Coal loading dock.  
One (1) McMyler Car Dump.  
Capacity per 8 hours, 10,000 tons.  
Depth of water, 23 feet.  
R. R. Conn.: B. & L. E. R. R.

### CORNWALL, ONT.

**Howard Smith Paper Mills, Ltd.**  
Location Cornwall Canal above Lock 18.  
2 Caterpillar hoists.  
Depth of water at dock 15 feet.  
Storage capacity 70,000 tons coal, 60,000 cords wood.  
Maximum length, Canal size.  
R. R. Conn.: C. N. R., C. P. R. and N. Y. C.

**The Lelly Munre Fuels, Ltd.**  
Location Water St. East Cornwall.  
Self unloading vessels only.  
Depth of water at dock 14 feet.  
Storage Capacity 150,000 tons.  
Length of dock 525 feet.

### DE PERE, WISCONSIN

**Nicolet Paper Co. Slip.**  
Self unloading vessels only.  
Storage capacity 15,000 tons.  
Length of dock 400 feet.  
Depth of water at dock 19 feet.  
Maximum length of ship 500', 50' beam.  
R. R. Conn.: C. & N. W., C. M. St., P. & P.

**De Pere Coal Co.**  
**Nicolet Paper Corp.**  
Storage capacity 7,000 tons.  
Depth of water at dock 16 feet.  
Use self unloading vessels only.  
R. R. Conn.: C. N. W., C. M. & St. P.

**Wells Coal & Dock Co.**  
Location East Bank of Fox River.  
Self unloading vessels only.  
Depth of water at dock 17 to 18 feet.  
Storage capacity soft coal 20,000 tons.  
Maximum length of ship 500 feet.  
R. R. Conn.: C. M. & St. P., C. & N. W.

### DEPOT HARBOR, ONT.

**Century Coal Company, Ltd.**  
Link belt unloading tower.  
Unloading Capacity 500 tons per hour.  
Any length boat.  
Storage Capacity 500,000 tons.  
R. R. Conn.: C. N. R.

### DESERONTO, ONT.

**Rathbun Co.**  
1 Hunt Hoist.  
½ ton bucket used.  
Capacity per 10 hours 300 tons.  
Depth of water at dock 12 feet.

### DETOUR, MICH.

**Detour Coal Dock (Fuel Dock)**  
1 McMyler Whirlie with 90 ft. boom.  
Regular fueling by conveyor belt.  
Capacity per hour 1,200 tons.  
Storage Capacity 35,000 tons.  
Depth of water at dock 25 feet.  
Can handle any size ship.  
Delivery by self unloaders only.

**Drummond Island Corp.**  
**Drummond Island Quarry Dock.**  
**Drummond Dolomite Incorporated.**  
Dock located St. Marys River, Drummond Island.  
Office Sturgeon Bay, Wis., and 308 Euclid Ave., Cleveland, Ohio.  
1-100 ton steam crane.  
Handles from 1 ton to 75 ton stone.  
Depth of water at dock 22 feet.  
Length of dock 600 feet.  
Will load 60 foot beam boats.  
Loading capacity 100 tons per hour.  
Storage capacity 10,000 tons breakwater stone.  
No railroad connections.

### DETROIT, MICH.

**American Gypsum Co.**  
Located West Side River Rouge above Jefferson St.  
Office 10108 W. Jefferson Ave.

Depend on self-unloading boats.  
Depth of water at dock 16 feet.  
Can handle any size boat.  
Length of dock 350 feet.  
R. R. Conn.: M. C. R. R.

### American Malting Co.

Located west side of River Rouge below Dix Ave.  
Office 125 South Dix.  
Depend on self-unloading boats.  
Depth of water at dock 20 feet.  
Length of dock 300 feet.  
Aurora Oil Co., also use this dock.

### Aqua Terminal & Dock Co.

Location Detroit River 1 mile west of Woodward Ave.  
Storage capacity 80,000 tons.  
2 Northwest Whirlies with 50 ft. boom.  
Size of clam shell used 1 yard.  
Capacity per 10 hours 2,500 tons.  
2 Brown Electric Mono-rail Hoists.  
Size of clam shell used, 1 yard.  
Capacity per 10 hours 2,500 tons.  
Depth of water at dock 20 feet.  
Can handle any size ship.  
R. R. Conn.: Grand Trunk, Penn., M. C.

### Beaubien Ice & Coal Co.

Dock located on property of Detroit Harbor Terminal.  
Office 108 South Pelham Ave.  
Length of dock 190 feet.  
Depend entirely on self-unloading boats.

### Belle Isle Lime Company.

Dock located foot of St. Jean St.  
Depend entirely on self-unloading boats.  
Storage capacity 50,000 tons.  
Depth of water at dock 20 feet.  
Can handle any size boat.  
Length of dock 1,400 feet.

### Cadillac Coal & Coke Co.

Location River Rouge near Jefferson.  
Self unloading vessels only.  
Depth of water at dock 19 feet.  
Storage capacity 60,000 tons.  
Can handle any size ship.  
R. R. Conn.: M. C.

### Champion Fuel Co. Dock No. 1.

Location Foot of West Grand Blvd.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage capacity 75,000 tons bituminous,

5,000 tons anthracite.  
R. R. Conn.: Union Belt Line.

### Champion Fuel Co. (Dock No. 2)

Foot of Meldrum Ave.  
Self unloading vessels only.  
Length of dock 360 feet.  
Storage capacity 50,000 tons.  
Can handle any size boat.  
Draft at dock 17 feet.

### City of Detroit Public Lighting Commission.

Location Foot of Morrell St.  
Self unloading vessels only.  
Depth of water at dock 22 feet.  
Storage capacity 150,000 tons.  
Can handle any size ship.  
R. R. Conn.: Terminal Ry. and M. C.

### City of Detroit Waterworks.

Location Detroit River opposite Belle Isle.  
American side.  
Self unloading vessels only.  
Depth of water at dock 20 feet.  
Storage capacity 25,000 tons.  
Can handle any size vessel.

### Davy Coal Company

Location Fort St. and River Rouge.  
Self unloading vessels only.  
Depth of water at dock 21 feet.  
Storage capacity 50,000 tons.  
Can handle any size ship.  
R. R. Conn.: M. C.

### Detroit & Cleveland Navigation Co.

Location Foot of Wayne St.  
Self unloading vessels only.  
Depth of water at dock 17 feet.  
Storage capacity 4,000 tons.  
Can handle any size ship.

### Detroit City Gas Co.

Location foot of Bellevue St.  
Length of dock 188 feet.  
Depth of water at dock 8 feet.  
Storage capacity 10,000 tons.  
Use self-unloading boats only.  
R. R. Conn.: M. C.

### Detroit Coal & Dock Co.

Location Foot of West End Ave. on River Rouge.  
Self unloading vessels only.  
Depth of water at dock 17 feet.  
Storage capacity 100,000 tons.  
Can handle any size ship.  
R. R. Conn.: Delray Conn. R. R.

**Detroit Edison Co.**

Location Foot of Lycaste St.  
Self unloading vessels only.  
Depth of water at dock 22 feet.  
Storage capacity 860,000 tons.  
Can handle any size ship.  
R. R. Conn.: Detroit Terminal.

**Detroit Edison Co.**

Location Detroit River just below Ft Wayne.  
Self unloading vessels only.  
Depth of water at dock 20 feet.  
Storage capacity 350,000 tons.  
Can handle any size ship.  
R. R. Conn.: Union Belt, M. C.

**Detroit Edison Co.**

Location Foot of Orleans St.  
Self unloading vessels only.  
Depth of water at dock 22 feet.  
Storage capacity 150,000 tons.  
Can handle any size ship.  
R. R. Conn.: G. T.

**Detroit City Ice & Fuel Co.**

Location Foot of Anspach St. east side of River Rouge.  
Self unloading vessels only.  
Storage capacity 250,000 tons.  
Draft 19 feet.  
Length of dock 1,800 feet.

**Detroit Harbor Terminals, Inc.**

Location Foot of Clark St.  
2,000 ft. of dock.  
Number of hoppers 150 ton capacity.  
Capacity of hoppers for 24 hours 1,000 tons.  
5 cranes.  
1 yard and 2½ yard clam shells used.  
Capacity per 24 hours 2,000 tons.  
Length of booms 50 to 75 feet.  
Storage capacity unlimited.  
Dock also handles package freight.  
Depth of water at dock 22 feet.  
Can handle any size ship.  
R. R. Conn.: Penn., P. M., Wabash, N. Y. C., M. C., G. T. & D. T. & I.

**Detroit Lime & Chemicals Corp.**

Location Fairview Slip, foot of St. Jean Ave.  
Self unloading vessels only.  
Storage Capacity 25,000 tons limestone.  
Depth of water at dock 22 ft.

Maximum length of ship 400 ft.  
R. R. Conn.: Det. Terminal.

**Detroit Sulphite Pulp & Paper Co.**

Location, River Rouge, 8125 W. Jefferson.  
2 locomotive cranes and 1 caterpillar crane.  
Length of booms 50 and 55 ft. capacity 5 and 6 tons.  
Coal supplied by self unloaders only.  
Depth of water at dock 19 feet.  
Storage capacity 16,000 tons.  
Maximum length of ship 465', beam 54'.  
R. R. Conn.: M. C.

**Dixie Fuel & Supply Co.**

Location River Rouge-Zug Island.  
Self unloading vessels only.  
Depth of water at dock 25 feet.  
Storage capacity 70,000 tons.  
Maximum length of ship 500'.  
R. R. Conn.: D. T. & I.

**Du Pont De Nemours & Co.**

Location just south of Ecorse light on Detroit River.  
Self unloading vessels only.  
Depth of water at dock 12 feet.  
Storage capacity 8,000,000 tons.  
Maximum length of ship 300' any size beam.  
R. R. Conn.: M. C.

**Eberts Brothers Co. (Wyandotte, Mich.)**

Location between Poplar & Walnut Sts.  
Self unloading vessels only.  
Depth of water at dock 22 feet.  
Storage capacity 5,000 tons Bituminous, 25,000 tons aggregates.  
Can handle any size ship.  
R. R. Conn.: M. C.

**Emery, W. L.**

Location foot of Mt. Elliott St.  
Use self-unloading boats only.  
Handles coal, sand and gravel.  
1 electric locomotive crane with 60 foot boom.  
Depth of water at dock 15 feet.  
Manager—W. C. Schippert.  
Length of dock 130 feet.

**Ford Motor Co.**

Location—River Rouge, Dearborn, Mich.  
2 Hulet unloaders.  
Size of clam shells used, 12 tons.  
Capacity per 10 hours 8,000 tons.  
1 Mead-Morrison.

Capacity per 10 hours 4,000 tons.  
Storage capacity 1,000,000 tons.  
Ore, Coal & Stone direct to bins.  
Depth of water at dock 20 to 21 feet.  
Can handle any size ship.  
R. R. Conn.: D. T. & I., M. C. and Wabash.

**Ford Motor Co. (Coke and Slag Dock)**

Location on River Rouge east bank north of Dix Ave. Bridge.  
Use Belt conveyor.  
Capacity per 10 hours 2,500 to 3,000 tons.  
Depth of water at dock 20 feet.  
Can handle any size ship.  
R. R. Conn.: D. T. & I.

**Ford Motor Co. (Steel & Pig Iron Dock).**

Location on River Rouge, west bank.  
5 Brown Electric Gantry Cranes.  
2 equipped with 70 ft. booms and 3 with 90 ft. booms.  
Capacity per 10 hours unloading 2,000 to 3,000 tons which depends on the type of ship.  
Depth of water at dock 19 to 20 feet.  
Can handle any size ship.  
R. R. Conn.: D. T. & I.

**Fuel Oil Corporation.**

Fuel oil of all types.  
Storage capacity 400,000 barrels.

**Dept. of Municipal Service (Wyandotte, Mich.)**

Location Foot of Vinewood Ave.  
Self unloading vessels only.  
Depth of water at dock 22 feet.  
Storage capacity 25,000 tons.  
Can handle any size ship.  
R. R. Conn.: M. C.

**Great Lakes Transport Corp.**

Location in Nicholson slip behind Great Lakes Eng. Works.  
Oil tankers.  
Depth of water at dock 20 feet.  
Storage capacity 20,000 gallons.  
Maximum length 250'.  
R. R. Conn.: D. T. & I. and M. C.

**Huron Portland Cement Co.**

Location foot of Riopelle St.  
Office 1325 Ford Bldg.  
Use self-unloading boats only.  
Depth of water at dock 18 feet.  
Length of dock 125 feet.  
R. R. Conn.: G. T. R. R.

**Inland Lime & Stone Co., St. Jean Dock.**

Location foot of St. Jean St.  
Self unloading vessels only.  
Storage Capacity 100,000 tons.  
Depth of water at dock 19 ft.  
Can handle any size ship.  
R. R. Conn.: Detroit Terminal.

**Inland Lime & Stone, Rouge Dock.**

Location west side River Rouge, foot of So. Deacon St.  
Self unloading vessels only.  
Storage capacity 100,000 tons.  
Depth of water at dock 19 ft.  
Can handle any size ship.  
R. R. Conn.: Mich. Central.

**International Salt Co., Inc.**

Location on west side of Ford Motor Co. turning basin in River Rouge.  
For loading only with Rock Salt.  
Depth of water at dock 18 feet.  
Maximum length of ship 440', beam 52'.  
R. R. Conn.: Wabash.

**Koenig Coal & Supply Co.**

Location on River Rouge just south of Fort St. Bridge.  
Self unloading vessels only.  
Depth of water at dock 20 feet.  
Storage capacity 200,000 tons.  
Can handle any size ship.  
R. R. Conn.: M. C.

**Detroit Marine Terminals, Inc.**

Foot of Lycaste Avenue, Detroit, 14, Michigan, Tel. Valley 2-7733.  
The facilities of our terminal comprising 33 acres of land on the Detroit River at the foot of Lycaste Avenue, six miles from the center of Downtown Detroit. These facilities include dock wharriage for three 12,000 ton ships simultaneously.  
A network of railroad sidings (2¼ miles) interweave throughout our property.  
Two steam locomotive cranes of fifteen ton capacity and one electric traveling gantry crane of 30 ton capacity are included in our handling equipment, also a steam switch engine, and gasoline tractors.  
The Detroit Terminal Railroad main line enters our property and connects with our sidings.  
Drained and cinderized roadways permit highway trucks to load and unload without difficulty.  
Approximately 25 acres of storage space,

including cement loading platform. The whole area is fenced in and has 24 hour a day watchman's service and protection.

We invite your inquiries as to the utilization of our resources.

J. D. McGRATH, General Manager.

#### Michigan Consolidated Gas Co.

Location Foot of Meldrum on Detroit River.

Oil tankers only.

Depth of water at dock 10 to 15 feet.

Length of ship 203 feet.

R. R. Conn.: M. C.

#### Michigan Dock Corp.

Location foot of Hastings St.

Package freight dock.

Transit shed 800x100—75,000 sq. ft.

2 traveling electric Gantry cranes.

Capacity 500 tons per 10 hours.

Depth of water at dock 20 feet.

Length of dock 750 feet.

R. R. Conn.: Grand Trunk.

#### Michigan Foundation Co.

Location Foot of St. Johns Street Wyandotte.

Self unloaders only.

Storage capacity 10,000 tons.

Depth of water at dock 15 feet.

Length of boat 400 feet.

#### Michigan Limestone & Chemical Co.

Dock located foot of Jos. Campau & Chene Sts.

Office 2690 East Atwater St.

Depend on self-unloading boats.

Handle sand and stone over the dock.

2 gasoline locomotive cranes equipped with land 1 3-4 yard clam shells.

Depth of water at dock 18 feet.

Length of dock 340 feet.

Storage capacity 50,000 tons.

#### Michigan Limestone & Chemical Co.

Dock located foot of Anspach St.

Depend on self-unloading boats.

Depth of water at dock 20 feet.

Can handle any size boat.

Storage capacity 30,000 tons.

R. R. Conn.: M. C. R. R.

#### Nicholson Material Co.

Location at Jefferson Ave. Bridge east bank River Rouge.

Self unloading vessels only.

Depth of water at dock 20 feet.

Storage capacity 100,000 tons.

Can handle any size ship.

#### Nicholson Terminal & Dock Co.

(This is a fuel and scrap iron dock.)

Location on Detroit River adjoining Great Lakes Eng. Works.

4-Electric Gantries.

4-Locomotive Cranes.

Depth of water at dock 20 feet.

Storage capacity 100,000 tons.

Can handle any size ship.

R. R. Conn.: M. C.

#### Nicholson Terminal & Dock Co.

Bunkering facilities, conveyor belt system to chutes, 18,000 ton capacity.

#### National Steel Corp. (Great Lakes Steel Div.)

Location on Detroit River at Zug Island.

Self unloading vessels only.

Depth of water at dock 24 feet.

Storage capacity 1,200,000 tons.

Can handle any size ship.

R. R. Conn.: M. R., D. T. & I., D. C.

R. R., P. M., Wabash, G. T. R. R. & PRR.

#### National Steel Corp. (Great Lakes Steel Div.), Limestone Dock.

Location on Detroit River foot of Tecumseh Rd.

Self unloading vessels only.

Depth of water at dock 20 feet.

Storage capacity 500,000 tons.

Can handle any size ship.

R. R. Conn.: M. C., D. T. & I.

#### Parker Bros. & Co., Ltd.

Dock located foot of Dubois St.

Office 31 W. Atwater St.

Use self-unloading boats.

Handle coal, sand and gravel.

2 locomotive cranes with 30 and 40 foot booms.

1 and 2 yard clam shells used.

Depth of water at dock 16 to 18 feet.

Length of dock 300 feet.

R. R. Conn.: M. C. R. R.

#### Pennsylvania Salt Mfg. Co.

Location on Detroit River south end of Wyandotte.

Self unloading vessels only.

Depth of water at dock 17 feet.

Storage capacity 12,000 tons.

Can handle any size ship.

R. R. Conn.: Wyandotte Southern, D. T.

& I. and M. C.

#### Peerless Cement Corp.

Location on River Rouge between cutoff and R. R. bridge.

Self unloading vessels only.

Depth of water at dock 12 feet.

Storage capacity 120,000 tons.

Can handle any size ship.

R. R. Conn.: M. C.

#### Petoskey Portland Cement Co.

Located foot of Chene St.

Office 2652 East Atwater St.

Use self-unloading boats only.

3 silos 57,000 bbls. capacity.

Depth of water at dock 18 feet.

Length of dock 180 feet.

R. R. Conn.: M. C. R. R.

#### Pine Ridge Coal Co.

Location Fort Street, River Rouge.

Office 2632 Buhl Bldg.

Use self-unloading boats.

Storage capacity 150,000 tons.

Depth of water at dock 22 feet.

Can handle any size boat.

Length of dock 600 feet.

R. R. Conn.: Michigan Central.

#### Pine Ridge Coal Co. (Fuel Dock).

1325 E. Atwater St.

Vessel fueling 900 tons per hour.

Use self-unloading boats only.

1 Bridge.

3 ton clam shell used.

Depth of water 23 feet.

Storage capacity 100,000 tons.

Can handle any size boat.

Automatic weightometer.

R. R. Conn.: G. T.

#### Pollard, B. J.

Location west side River Rouge above Wabash R., foot of Stocker St.

Office 14300 Prairie.

Handles coal, sand, stone and gravel.

Self-unloading boats only.

2 Caterpillar cranes and loader.

Depth of water at dock 20 feet.

Can handle any size boat.

#### Rail & Waterways Dock Co.

Location foot of Scotten St.

Self unloading vessels only.

Depth of water at dock 21 feet.

Storage capacity 100,000 tons.

Can handle any size ship.

R. R. Conn.: P. M.

#### Sand Products Corp.

Dock located river end of slip, foot of St. Jean St.

Office 2489 National Bank Bldg.

Use self-unloading boats only.

Storage capacity 50,000 tons.

Depth of water at dock 19 feet.

Can handle any size boat.

Length of dock 600 feet.

#### Semet-Solvay Co. (Coke Dock)

Location on River Rouge across from Hanna Furnace.

1 conveyor loading equipment.

Capacity per hour 200 tons.

Depth of water at dock 20 feet.

Can handle any size ship.

R. R. Conn.: Delray Conn.

#### Semet-Solvay Coal Co.

Location on Detroit River just above Hanna Furnace.

Self unloading vessels only.

Depth of water at dock 22 feet.

Storage capacity 100,000 tons.

Can handle any size ship.

R. R. Conn.: Delray Conn. R. R.

#### United States Gypsum Co.

Location north west end of Belle Isle.

Self unloading vessels only.

Depth of water at dock 19 feet.

Storage capacity 70,000 tons.

Can handle any size ship.

#### United States Rubber Co.

Location Beaufort St.

Self unloading vessels only.

Depth of water at dock 22 feet.

Storage capacity 75,000 tons.

R. R. Conn.: M. C.

#### Western Transit Co.

Dock located foot of Campbell Ave.

Used for loading automobiles.

Depth of water at dock 20 feet.

Length of dock 425 feet.

R. R. Conn.: M. C. R. R.

#### Winkworth Fuel Co.

Location on River Rouge, Jefferson Ave.

north side of River.

Self unloading vessels only.



Storage capacity 5,000 tons.  
Depth of water at dock 22 feet.  
Can handle any size ship.

**Wyandotte Chemicals Corp. (Formerly Michigan Alkali) Wyandotte. North Plant Dock.**

Location in Wyandotte channel of Detroit River.  
Self unloading vessels only.  
Depth of water at dock 19 ft.  
Storage capacity 480,000 tons.  
R. R. Conn.: Wyandotte Terminal, N. Y. C. and D. T. & I.

**Wyandotte Chemicals Corp., South Plant Dock.**

Location west bank of Detroit.  
River Trenton Channel opposite Point Hennepin.  
Self unloading vessels only.  
Storage capacity 260,000 tons.  
Depth of water at dock 19 feet.  
Can handle any size ship.  
R. R. Conn.: Wyandotte Terminal, DT&I and NYC.

**DULUTH, MINN.**

**Berwind Fuel Co. (Dock No. 2)**

Location 50th Ave., West, West Duluth.  
Three Link belt bridges.  
Size of clam shell used, 7 ton.  
Capacity per ten hours 10,000 tons.  
Storage capacity 650,000 tons.  
Depth of water at dock 22 feet.  
Can handle any size ship.  
R. R. Conn.: N. P., St. Paul, Soo & C. N., D. M. & N. D. & I. R., D. S. S. & A., Omaha, G. N.

**Carnegie Dock & Fuel Co. (Bituminous)**

Location West Duluth on St. Louis River above Grassy Point.  
1 Mead-Morrison.  
9 ton clam shell used.  
Capacity per 10 hours 5,000 tons.  
Storage capacity 600,000 tons.  
Can handle any size ship.  
Depth of water at dock about 21 feet.  
R. R. Conn.: N. P.

**Carnegie Dock & Fuel Co., Dock No. 2. (Anthracite)**

Location West Duluth on St. Louis River above Grassy Point.  
2 Mead-Morrison.

4 ton clam shell used.  
Capacity per 10 hours 5,000 tons.  
Storage capacity 100,000 tons.  
Can handle any size ship.  
Depth of water at dock about 22 feet.  
R. R. Conn.: N. P., St. P., Soo, C. N., D. M. & N., D. & I. R., D. S. S. & A., Omaha, G. N.

**Cleveland-Cliffs Iron Co.**

Location Rice Point, between Capital & Consolidated Elevators.  
1 six ton Mead-Morrison Bridge with six ton clam shell.  
1 Roberts - Schaefer Bridge-3 ton clam shell.  
Total capacity per ten hours 8,000 tons.  
Work days and nights.  
Storage capacity 600,000 tons.  
Depth of water at dock 20 feet.  
Can handle any size ship.  
R. R. Conn.: N. P., Soo, Omaha, G. N., C. N., St. Paul, D. & I. R., D. M. & N.

**Cutler-Magner Co. (Stone Dock)**

Lime dock slip 3 and 8th Ave., West.  
Salt dock slip 5 and 11th Ave., West.  
1 Lakeside Electric Crane on each dock.  
2 and 2½ yd. clam shell on each dock.  
Capacity each dock per 10 hrs. 1,250 tons.  
Depth of water at dock 19 feet.  
Storage capacity 20,000 tons.  
Maximum length of ship 375 feet.

**Duluth, Misabe & Northern Ry. Co. (St. Louis Back Bay Dock Co.)**

Limestone dock located at 33rd Ave.  
3 Electric Mead-Morrison.  
Size of clam shell used 5 tons.  
Capacity per 10 hours 12,000 tons.  
No storage, material loaded direct to cars for shipment to Minnesota Steel Co. and Atlas Cement Co.  
Depth of water at dock 22 feet.  
Can handle any size ship.

**Duluth, Misabe & Northern Ry. Co. (St. Louis Back Bay Dock Co.)**

5 Electric Mead-Morrison.  
2 5 ton clam shells used.  
3 2 ton clam shells used.  
Capacity per 10 hours 12,000 tons.  
Storage capacity 625,000 tons.  
Depth of water at dock 22 feet.  
Can handle any size ship.  
R. R. Conn.: D. M. & N., N. P. & Soo, Omaha, C. N., St. Paul, D. & I. R., G. N.

**Inland Coal & Dock Co.**

Location West Duluth, foot of 50th Ave.  
2 West on St. Louis River.  
2 Heyl & Patterson.  
Size of clam shell used 8 ton diggers.  
Size of clam shell used 4½ ton clean tip.  
Capacity per 10 hours 7,500 tons.  
4 box car loaders and 2 screening plants.  
Storage capacity 850,000 tons.  
Can handle any size ship.  
Depth of water at dock 24 feet.  
R. R. Conn.: N. P., St. P., Soo, C. N., D. M. & N., D. & I. R., D. S. S. & A., Omaha, G. N.

**Northwestern-Hanna Fuel Co.—Dock No. 3**

Location 302 Garfield Ave., Rice's Pt.  
2 Brown Hoist bridges.  
Size of clamshell 8½ tons, clean-up 6 tons.  
Capacity per 10 hours 4,000 tons.  
Storage capacity 250,000.  
Depth of water at dock 21 feet.  
Length of dock 1,540 feet, width 215 feet  
Maximum length of boat 600 feet.  
Beam 64 feet.  
R. R. Conn.: N. P., G. N., Omaha, Soo, D. & I. R., D. M. & N. C. N., St. Paul

**Northwestern-Hanna Fuel Co.—Dock No. 4**

Location Garfield Ave. Rice's Point in St. Louis Bay.  
1 Brown Hoist.  
Size of clam shell 10 ton, clean up 6 ton.  
Capacity per 10 hours 6,000 tons.  
Storage capacity 350,000 tons (Bit).  
Depth of water at dock 26 feet.  
Can handle any size ship.  
R. R. Conn.: N. P., Soo, Omaha, G. N., C. N.

**Northwestern-Hanna Fuel Co.—Dock No. 5**

Location 37th Ave. West on St. Louis Bay.  
1 Brown Bridge.  
Size of clam shell used 17 ton, clean up 7 ton.  
Capacity per 10 hours 4,500 tons.  
Storage capacity 500,000 tons bituminous.  
Depth of water at dock 24 feet.  
Can handle any size ship.  
R. R. Conn.: N. P., St. P., Soo, C. N., D. M. & N., D. & I. R., D. S. S. & A., Omaha, G. N.

**Peabody Coal Co.**

(Use facilities of Zeneth Furnace).

**Zeneth Furnace Division (Interlake Iron Corp.)**

Location Foot of 58th Ave., West on St. Louis River.  
2 Brown Hoists.  
10 ton clam used, 6 ton on clean up.  
Capacity per ten hours 10,000 tons.  
Storage capacity 575,000 tons.  
Depth of water at dock 21 feet.  
Can handle any size ship.  
R. R. Conn.: Northern Pacific.

**DUNKIRK, N. Y.**

**City Dock.**

Location in the Harbor.  
1 McMyler Interstate Type J.  
Size of clam shell used 1½ ton.  
Capacity per 10 hours 800 tons.  
Storage capacity 3,500 tons.  
Depth of water at dock 16 feet.  
Maximum length of ship 460 feet.  
R. R. Conn.: Erie, N. Y. C., N. P., Penn.

**EAST CHICAGO, IND. (INDIANA HARBOR)**

**East Chicago Dock & Terminal Co. (Merchandise Dock).**

Location on Indiana Harbor ship canal.  
Unloading equipment four cranes.  
Capacity per 10 hours 1,500 tons.  
Depth of water at dock 21 feet.  
Can handle any size ship-50' beam.  
R. R. Conn.: Any lines entering Chicago.

**City Service Oil Co.**

Location Indiana Harbor ship canal.  
Oil tankers-loading dock only.  
Maximum length of boat 500' any beam.  
Depth of water at dock 22 feet.  
Pipe Line.

**Material Service Corp.**

Located on Indiana Harbor Ship Canal.  
Office 33 North LaSalle St., Chicago.  
1 link belt with 45 foot boom.  
Capacity per 10 hours 1,800 tons.  
Storage capacity 40,000 tons.  
Length of dock 400 feet.  
Depth of water at dock 19' 6".  
Can handle any size boat

**Shell Oil Co.**

Location on ship canal in Indiana Harbor.  
Oil tankers.  
Depth of water at dock 21 feet.  
Can handle any size ship.



**Watson Coal Co.**

(Use facilities of E. Chicago Dock Terminal).

**Inland Steel Co.**

Location entrance to Indiana Harbor Ship Canal.  
5 Hoover & Mason with 65 ft. booms.  
Size of clam shells used, 2 5 ton & 3 4 ton.  
Capacity per 10 hours 11,000 tons coal.  
Capacity per 10 hrs. limestone 6,500 tons.  
Storage capacity 200,000 tons coal, 450,000 tons limestone.  
Can handle any size ship.  
R. R. Conn.: E. J. & E. and I. H. & B.

**Youngstown Sheet & Tube Co. (Mark Plant).**

Location entrance to Indiana Harbor Ship Canal.  
2 Hoover & Mason.  
8 ton clam shell used.  
Capacity per 10 hours 8,000 tons.  
Depth of water at dock 21 feet.  
Can handle any size ship.

**ERIE, PA.****Erie Sand & Gravel Co.**

Location First dock west of Public Pier.  
2 clam shells.  
Capacity per 10 hours 2,000 tons.  
Depth of water at dock 18 feet, 6 inches.  
Storage capacity 45,000 tons.  
Can handle any size ship.  
R. R. Conn.: Penn., N. Y. C., N. K. P. and Bessemer.

**Hammerrill Paper Co. (Pulpwood Dock).**

Location Lower end of bay.  
5 McMyers with 40 foot booms.  
Capacity per day 900 cords.  
Depth of water at dock 19 feet.  
Can handle 500 foot ship, 50 ft. beam.  
R. R. Conn.: Penn., N. Y. C., Bessemer, N. K. P.

**Kelley Island Lime & Transport Co., The**

Pennsylvania R. R. ore dock (old dock).  
1 Browning crane.  
Length of boom 50 feet.  
Unloading capacity per 10 hrs. 2,000 tons.  
Loading capacity per 10 hrs. 2,000 tons.  
Reach of booms from end of dock 30 ft.  
Depth of water at dock 18 feet.  
Load direct to cars.  
R. R. Conn.: Penn., B. & L. E., N. Y. C. and N. K. P.

**ERIEAU, ONT. (RONDEAU)****Empire-Hanna Coal Co., Ltd.**

(Use facilities of Lake Erie Navigation Co. Dock).

**Lake Erie Navigation Co.**

Location in Harbor.  
1 Wellman-Seaver-Morgan Bridge with 57 ft. boom.  
Size of clam shell used 5 tons.  
Capacity per 10 hours 5,000 tons.  
1 Canadian Mead-Morrison Bridge with 60' boom.  
Size of clam shell used, 5 ton.  
Storage capacity 200,000 tons.  
Depth of water at dock 21 feet.  
Maximum length of ship 400 feet.  
R. R. Conn.: Pere Marq., M. C., G. T., C. P. R.

**ESCANABA, MICH.****Cleveland Cliffs Iron Co. (Escanaba Coal & Dock Co.)**

Location North Escanaba.  
1 Mead-Morrison Bridge.  
6 ton clam shell used.  
Capacity per 10 hours 4,000 tons.  
Storage capacity 125,000 tons.  
Depth of water at dock 19 feet.  
Can handle any size ship.  
R. R. Conn.: Milwaukee Rd., E. & L. S.

**Reiss Coal Co. (C. & N. W.)**

Location foot of 10th St.  
1 Mead-Morrison Bridge.  
6 ton clam shell used.  
Capacity per 10 hours 3,500 tons.  
Storage capacity 140,000 tons.  
Depth of water at dock 19½ feet.  
Can handle any size ship.  
R. R. Conn.: C. & N. W.

**FAIRPORT, OHIO****Pennsylvania and Lake Erie Dock Co.**

Location ¼ mile above entrance.  
Operated by Union Sand & Supply Corp., Northeastern Road Improvement Co. and Daniel Bros.  
Used for sand, gravel and limestone.  
Self unloading vessels only, any size.  
Storage capacity 500,000 tons.  
Length of dock 330 feet.  
Depth of water 20 feet.

**Diamond Alkali Company**

Location 1¼ miles above entrance.  
Used for receipt of limestone.

Self unloading vessels only, any size.

Length of dock 1,300 feet.

Depth of water 23 feet.

1-8" pipe line for fuel oil extends from dock to storage tanks in rear of limestone storage area.

**A. E. Staley Manufacturing Co.**

Location 1 mile above entrance, West bank.  
Used for shipment of soybean oil.  
Tank vessels only.  
Length of dock 880 feet.  
Depth of water 20 feet.

**FORT ERIE, ONT.****Fort Erie Dock Co., Ltd.**

Location on Niagara River opposite Black Rock Lock.  
1 Crawler Crane.  
Storage Capacity 5,000 tons.  
Unloading capacity per 10 hours 800 tons.  
Depth of water at dock 11 ft.  
Maximum length of ship 400 ft.  
R. R. Conn.: N. Y. C.

**FT. WILLIAM, ONT.****Canada Iron Foundries, Ltd.**

Location Kaministiquia River.  
2 Machines-1 with 50' boom and 1 with 55' boom.  
Size of bucket used 1 ton.  
Capacity per hour 30 tons, one machine.  
Storage capacity, Coke 1,800 tons, sand 1,200 tons, pig iron 1,000 tons.  
Depth of water at dock 25 feet.  
Can handle any size ship.

**Canadian Pacific Rwy. Co.**

Location McKellar River-I-land No. 1.  
4x2 Hulett unloaders.  
2 Storage and loading bridges.  
Capacity per 10 hrs. 8,000 tons.  
Storage capacity 1,500,000 tons.  
Depth of water at dock 21 feet.  
Can handle any size ship.  
R. R. Conn.: C. P. R. and C. N.

**Empire Elevator Co., Ltd.**

Location Kaministiquia River.  
Use self-unloading boats only.  
Storage capacity 2,000 tons.  
Depth of water at dock 23 feet.  
Can handle any size ship.  
R. R. Conn.: C. P. R.

**Empire-Hanna Coal Co., Ltd.**

(Use facilities of Ft. William Coal & Dock Co. and Canadian Pacific Rwy. Co.)

**Ft. William Coal Dock Co.**

Location Mission River.  
1 Heyl & Patterson.  
10 ton clam shell used.  
6 ton clam shell used for clean up.  
Capacity per 10 hours 6,500 tons.  
1 Brown Hoist-6 ton clam shell used.  
Capacity per 10 hours 2,500 tons.  
1 Heyl & Patterson 3 ton bridge.  
Storage capacity 800,000 tons.  
Depth of water at dock 23 feet.  
Can handle any size ship.  
R. R. Conn.: G. T. P., C. P. R. and C. N.

**Fort William Coal Dock Co. (Hard Coal Dock)**

Location Mission River.  
1 Brown Hoist Trolley.  
Size of clam shell used 7 tons.  
Capacity per 10 hours 2,500 tons.  
Storage capacity 150,000 tons.  
Can handle any size ship.  
Depth of water at dock 23 feet.  
R. R. Conn.: C. N., G. T. P. and C. P. R.

**Great Lakes Paper Co., Ltd.**

Location on Kaministiquia River.  
1 Tower with 2 ton bucket.  
Capacity per 10 hours 2,500 tons.  
Storage capacity 60,000 tons.  
Depth of water at dock 22 feet.  
Can handle any size ship.  
R. R. Conn.: C. N. and C. P. R.

**Murphy, James (Mead Dock).**

Location mouth of Kaministiquia River.  
2 Mead-Morrison-1½ and 2 ton clam shells used.  
Capacity per 10 hours 2,000 tons.  
Storage capacity 100,000 tons.  
1 McMyler-Whirlie in yard with 50' boom.  
Depth of water at dock 22 feet.  
Can handle any size ship.  
R. R. Conn.: C. P. R., C. N., G. T. P.

**Murphy Coal Co., James**

Location on Kaministiquia River.  
2 McMyler Whirlies, boom 1 75 ft. and 1 68 ft.  
Size of clam shells used 1½ and 2 ton.  
Size of bucket used 1 ton.  
Capacity per 10 hours 1,500 tons.  
Storage capacity 30,000 tons bituminous, 2,000 tons anthracite.  
Depth of water at dock 20 feet.

R. R. Conn.: C. P. R., C. N.  
Can handle any size ship.

**Steel Rail Unloading Dock.**  
Location on Kaministiquia River just  
above Murphy Mead dock.  
R. R. Conn.: C. P. R. and C. N.

### GANANOQUE, ONT.

**Sampson Coal Co., Ltd.**  
Dock located on St. Lawrence River.  
Use self-unloading boats.  
Storage capacity 1500 tons.  
Depth of water at dock 12 feet.  
Length of dock 100 feet.  
R. R. Conn.: C. N. R. R.

**Shortall Fuel Co.**  
Location St. Lawrence and Gananoque  
Rivers.  
Self unloading vessels only.  
Storage capacity 5,000 tons.  
Draft 12-14 feet.  
Length of dock 250 feet.  
Note: Empire-Hanna Co., Ltd. use this  
dock.

### GARY, INDIANA

**United States Steel Co.**  
Steel and stone dock on east side of slip.  
Self unloading vessels only.  
Can handle any size vessel.  
Depth of water 25 feet.

### GLADSTONE, MICH.

**Delta Coal & Dock Co.**  
Location Little Bay De Nock, foot Delta  
Ave.  
Self unloading vessels only.  
Depth of water at dock 20 feet.  
Storage capacity 75,000 tons.  
Can handle any size ship.  
R. R. Conn.: Soo Line, C. N. W., and  
Milwaukee Rd.

### GODERICH, ONT.

**Electric Light Plant.**  
Capacity per day 225 tons.

**Goderich Salt Co.**  
Location in Harbor foot of James St.  
Self unloading vessels only-200' boom.  
Depth of water at dock 21 feet.  
Storage capacity 12,000 tons.  
R. R. Conn.: C. N. and C. P. R.

**Lee, Charles, C.**  
Location in Harbor south side.  
Self unloading vessels only.  
Storage capacity 2,500 tons.  
Depth of water at dock 23 feet.

**Purity Flour Mills, Ltd.**  
Location south side of harbor.  
Self unloading vessels only.  
Storage capacity 12,000 tons.  
Depth of water at dock 18 feet, 6 inches.  
Can handle any size ship.  
R. R. Conn.: C. N. and C. P. R.

### GRAND HAVEN, MICH.

**City Coal Dock**  
Location City Island opposite ferry slip.  
Length of dock 750 feet.  
Fueling facilities.  
Equipped with conveyors.  
Depth of water at dock 19 feet.  
Use self-unloading boats only.  
Can handle any size boat.  
Storage capacity 75,000 tons.

**Construction Aggrates Co.**  
33 N. LaSalle St., Chicago, Ill.  
Located upper end of harbor on north  
side Grand River.  
Use self-unloading boats only.  
Storage capacity 50,000 tons.  
Depth of water at dock 19' 6".  
Length of dock 700 feet.  
Can handle boat of any length.

**Grand Haven Coal & Dock Co.**  
Location on right side of channel, first  
coal dock.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage capacity 10,000 tons.  
Maximum length of ship 500 feet.  
R. R. Conn.: G. T. and P. M.

**Spring Lake Ice & Coal Co.**  
Location  $\frac{1}{2}$  mile east of Harbor entrance,  
and  $\frac{1}{2}$  mile north in Grand River.  
Self unloading vessels only.  
Depth of water at dock 21 feet.  
Storage capacity 70,000 tons.  
Can handle any size ship.  
R. R. Conn.: G. T.

### GREEN BAY, WISCONSIN

**Challee & Sons, J. J.**  
Location on Fox River foot of James St.  
Self unloading vessels only.

Depth of water at dock 20 feet.  
Storage capacity 25,000 tons.  
Maximum length of ship 400 feet.

**Cleveland Cliffs Iron Co.**  
Location, West bank of Fox River im-  
mediately south of Chicago & N. W.  
Ry. Bridge.  
1 Mead-Morrison Bridge with 6 ton dig-  
ger.  
1 Brown clean-up clam 4 tons.  
Capacity per 10 hours 4,000 tons.  
Storage capacity 250,000 tons.  
Depth of water at dock 22 feet.  
Can handle any size ship.  
R. R. Conn.: C. & N. W., St. P., G. B.  
& W.

**Fort Howard Paper Co.**  
Location on Fox River west bank, south  
west of Cleveland Cliffs dock.  
Self unloading vessels only.  
Depth of water at dock 20 feet.  
Storage capacity 50,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. & N. W.

**Green Bay & Western Railroad Co. (Mer-  
chandise Dk.)** Operated by Green Bay  
Warehouses, Inc.  
Location just north of Mason St. Bridge,  
west side of Fox River.  
Crawler Cranes.  
Depth of water at dock 20 ft.  
Can handle any size ship.  
R. R. Conn.: G. B. & W. C&NW and C.  
M. St. P. & P.

**Hurlbut Co., F.**  
Location on Fox River between first and  
second bridge on port side.  
1 Electric Bridge and 2 crawler cranes.  
Capacity per 10 hours 3,000 tons.  
Storage capacity 150,000 tons.  
Depth of water at dock 22 feet.  
Maximum length 520'-50' beam.  
R. R. Conn.: C. & N. W., C. M. & St. P.  
and G. B. & W.

**Hurlbut Co., F.**  
Location on Fox River, first dock on right  
side.  
Self unloading vessels only.  
Depth of water at dock 22 feet.  
Storage capacity 200,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. & N. W., C. M. & St. P.  
and G. B. & W.

**Leicht Transfer & Storage Co. (Merchan-  
dise Dk.)**  
Location west side of Fox River between  
St. Paul & N. W. Rwy. bridges.  
Crawler Cranes.  
Unloading capacity per 10 hours 1,000 tons.  
Enclosed and open storage capacity.  
Depth of water at dock 22 ft.  
Maximum length of ship 350 ft.  
R. R. Conn.: N. W. and St. P.

**Northern Coal & Supply Co.**  
Location on west bank of Fox River be-  
tween Mason & Walnut St. bridges.  
Self unloading vessels only.  
Depth of water at dock 22 feet.  
Storage capacity 60,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. & N. W. and G. B. & W.

**Northern Paper Mills.**  
Location at junction of Fox and East  
Rivers.  
Self unloading vessels only.  
Depth of water at dock 20 feet.  
Storage capacity 30,000 tons.  
Can handle any size ship.  
R. R. Conn.: G. B. & W., and C. M. St.  
P. and C. & N. W.

**Reiss Coal Co. (C. M. & St. P.)**  
Location on west side of Fox River just  
above Mason St. bridge.  
2 Heyl & Patterson Bridges.  
Capacity per 10 hours 10,000 tons.  
Storage capacity 630,000 tons.  
Depth of water at dock 22 feet.  
Can handle any size ship.  
R. R. Conn.: St. P. & N. W., G. B. & W.

**Universal Atlas Portland Cement Co.**  
Location on Fox River.  
Equipped to handle bulk cement by pipe  
line from Fuller Kinyon pump on barge.  
Length of dock 50 feet.  
Depth of water at dock 21 feet.

**Western Lime & Cement Co.**  
Location foot of James St.  
Self unloading vessels only.  
Storage Capacity 40,000 tons.  
Depth of water at dock 18 ft.  
Can handle any size ship.  
R. R. Conn.: North Western Rwy.

**Wisconsin Public Service Co.**  
Location, west bank at mouth of Fox  
River.

Self unloading vessels only.  
Depth of water at dock 21 feet.  
Can handle any size ship.  
R. R. Conn.: C. & N. W.

### HAMILTON, ONT.

#### Canada Coal Co., Ltd.

Location Terminal Dock, Hamilton.  
Self unloading vessels.  
Any size boat.  
Storage capacity 100,000 tons.  
Draft 22 feet.  
Length of dock 520 feet.

#### Empire-Hanna Coal Co., Ltd.

(Use facilities of Hamilton By-Prod. Coke Ovens, Ltd. & Canada Coal, Ltd.)

#### Gillies-Guy, Ltd.

(Use facilities of Hamilton By-Prod. Coke Ovens.)

#### Hamilton By-Products Coke Ovens, Ltd.

Location, east end of city, south east end of Burlington Bay.  
1 Heyl & Patterson.  
Clam shell used 10 tons.  
Capacity per 10 hours 3,500 tons.  
Depth of water at dock 23 feet.  
Storage capacity 500,000 tons.  
Maximum size of ship 500', 60' beam.  
R. R. Conn.: C. N. R., C. P. R., M. C. and T. H. & B.

#### International Harvester Co. of Canada.

Self unloading vessels only.

#### Pittsburgh Coal Co., Ltd.

C. P. R. Bldg., Toronto, Ontario  
Use facilities of the Hamilton By-Products Coke Ovens, Ltd.

#### The Steel Co. of Canada, Ltd.

Location on Burlington Bay.  
3 Mead-Morrison unloading and storage bridges.  
Size of clam shells used 12 tons.  
Capacity per 10 hours 10,500 tons.  
1 Bridge is equipped with magnets for handling iron and steel products.  
Storage capacity 600,000 tons.  
Depth of water at dock 22 feet.  
Can handle any size ship.  
R. R. Conn.: C. N. R., T. H. & B., C. P. R.

#### Weaver Coal Co., Ltd., F. P.

Location foot of Wellington St. in Hamilton Harbor.

2 Lorain Whirlies; length of boom, one 45 ft.; one 55 ft.  
Capacity per 10 hours 1,000 tons.  
Self unloaders and bulk freighters.  
Storage capacity 75,000 tons bituminous, 25,000 tons anthracite.  
Depth of water at dock 22 feet.  
Can handle any size ship.  
R. R. Conn.: C. N. R., C. P. R., T. H. & B.

### HANCOCK & HOUGHTON, MICH.

#### Arens Coal Dock.

Location Portage Lake, West Hancock.  
Self unloading vessels only.  
Can handle 6,000 ton ship.  
Depth of water at dock 16 feet.  
Storage capacity 30,000 tons.  
R. R. Conn.: None.

#### Hammer-Quandt Coal Co. (Houghton, Mich.)

Location south side of lake, ½ mile east of draw bridge.  
Use self unloading ships only-8,000 ton ship.  
Depth of water at dock 14 ft.; in channel 20 ft.  
Storage capacity 30,000 tons.  
R. R. Conn.: D. S. S. & A.

#### Messner, Michael

Location Portage Lake east of Houghton bridge in Houghton.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage capacity 12,000 tons.  
Can handle any size ship.  
R. R. Conn.: D. S. S. & A.

#### Peoples Fuel Co. (Hancock, Mich.)

Location just west of Houghton-Hancock bridge.  
Use self unloaders only.  
Depth of water at dock 18 to 20 feet.  
Storage capacity 50,000 tons.  
Can handle any size ship.  
R. R. Conn.: Mineral Range.

#### Portage Coal & Dock Co.

Location 2½ miles east of the bridge, at Dollar Bay, on Portage Lake.  
1-3 ton and 1-1¼ ton clam shells.  
Storage capacity 70,000 tons.

Depth of water 19 feet.  
Length of dock 600 feet.  
Can handle any size boat.

#### Van Order Co., M. (Houghton, Mich.)

Location, west of draw bridge.  
Two Electric Bridges.  
Capacity per 10 hours 3,000 tons.  
Storage capacity 65,000 tons.  
Can handle any size ship.  
Depth of water at dock 20 feet.  
R. R. Conn.: Copper Range.

### HARBOR BEACH, MICH.

#### Huron Milling Co.

Location in Harbor.  
Self unloading vessels only.  
Depth of water at dock 12 feet.  
Storage capacity 5,000 tons.  
Maximum length of ship 325 feet.  
R. R. Conn.: P. M.

### HOLLAND, MICH.

#### Brewer's City Coal Dock

Location Pine Ave. at 1st St.  
Self unloading vessels only.  
Storage capacity 100,000 tons.  
Draft 19 feet 6 inches.  
Length of dock 800 feet.

#### Harrington Coal Co. (Dock No. 1)

Location Lake Macatawa  
Self unloading vessels only.  
Maximum size boat 600 feet.  
Storage capacity 40,000 tons.  
Draft 19 feet. Length of dock 390 feet.

#### Harrington Coal Co. (Dock No. 2)

Location, Foot of Van Raalte Ave.  
Self unloading vessels only.  
Maximum size boat 600 feet.  
Storage capacity 40,000 tons.  
Draft 19 feet. Length of dock 250 feet.

#### Holland, City of—Board of Public Works

Location West 3rd St. and the lake.  
Self unloading vessels only.  
Maximum size boat 600 x 60.  
Storage capacity 30,000 tons.  
Length of dock 525 feet.

### HUBBELL, MICH.

#### Quincy Mining Co.

Location, in Torch Lake south of Lake Linden.  
Self unloaders only.

Depth of water 18 feet.  
Storage capacity 75,000 tons.  
Maximum length of boat 504', 54' beam.  
R. R. Conn.: Private.

### KENOSHA, WIS.

#### Baldwin Coal Co., Geo. S.

Location, first dock south side of Harbor entrance.  
Depth of water at dock 17 feet.  
Self unloading vessels only.  
Storage capacity 20,000 tons.  
Maximum length of ship 500 feet.  
R. R. Conn.: C. & N. W.

#### Haas Coal & Dock Co.

Location North of Sixth Ave. Bridge.  
Self unloading vessels only.  
Any size boat.  
Draft 20 feet. Length of dock 1,000 feet.  
Storage capacity 30,000 tons.

#### Municipal Dock (City of Kenosha).

Location, shore end of Government Pier, north side of Harbor.  
Self unloading vessels only.  
Depth of water at dock 20 feet.  
Storage capacity 20,000 tons.  
Can handle any size ship.

### KEWAUNEE, WISCONSIN

#### Kewaunee Grain Co.

Location, at Harbor entrance.  
Self unloading vessels only.  
Depth of water at dock 14 feet.  
Storage capacity 25,000 tons.  
R. R. Conn.: G. B. & W., A. & A., P. M.

#### Trottman & Selner

Self unloading vessels only.  
Maximum length of boat 350 feet.  
Storage capacity 3,500 tons.  
Draft 21 feet. Length of dock 300 feet.

### KEY HARBOUR, ONT.

Canadian National Railway Dock.  
3 Brown Hoist 20 ton locomotive cranes.  
Capacity per 10 hours 1,000 tons.  
Can handle self unloaders also.  
Depth of water at dock 21 feet.  
Maximum length of ship 450'.  
R. R. Conn.: C. N.

### KILLARNEY, ONT.

#### Dominion Mines & Quarries, Ltd.

1 Conveyor.  
Capacity hoppers 600 tons per hour.



Self unloading vessels only.  
Storage capacity 6,500 tons.  
Depth of water at dock 21 feet.  
Maximum length 556', 56' beam.

#### KINCARDINE, ONT.

##### Valentine Cottrill.

Self unloading vessels only.  
Depth of water at dock 15 feet.  
Storage capacity 3,000 tons.  
R. R. Conn.: Can. Nat'l.

#### KINGSTON, ONT.

##### Anglin Co., Ltd., S.

Location Foot of Bay St.  
Self unloading vessels only.  
Size of boat 250 x 40.  
Storage capacity 20,000 tons.  
Draft 16 feet. Length of dock 400 feet.

##### Canadian Locomotive Co., Ltd.

Location at entrance to Harbor.  
Self unloading vessels only.  
Depth of water at dock 13 to 15 feet outer end.

Storage capacity 9,000 tons.  
Maximum length of boats 260'.  
R. R. Conn.: C. N., C. P. R.

##### Crawford Co., R.

Location foot of Queen St.  
Self unloading vessels only.  
Depth of water at dock 16 feet.  
Storage capacity 15,000 tons.

##### Public Utilities Commission.

Location Ontario St., foot of West St.  
Self unloading vessels only.  
Depth of water at dock 14 feet.  
Storage capacity 5,000 tons.

##### Soward's Coal Co., Ltd.

Location, north end of Ontario St.  
Self unloading vessels only.  
Depth of water at dock 16 feet.  
Storage capacity 14,000 tons.  
Maximum length of ship-canal size.  
R. R. Conn.: C. P. R.

##### Swift & Co., James

Location foot of Johnson St.  
Self unloading vessels only.  
Depth of water at dock 15 feet.  
Storage capacity 10,000 tons.  
Maximum length of ship 200', 60' beam.  
R. R. Conn.: C. P. R. and C. N.

#### LAKE LINDEN, MICH.

##### Calumet & Hecla Consolidated Copper Co. Dock No. 2.

Located on Torch Lake between Lake Linden & Hubbell.  
1 Mead-Morrison.  
Size of clam shell used 7 and 9 tons.  
Size of clam shell used for clean up 5½ tons.  
Capacity per 24 hours 10,000 tons.  
Storage capacity 500,000 tons.  
Depth of water at dock 18 feet.  
Can handle any size boat.  
R. R. Conn.: C. & H. R. R.

#### L'ANSE, MICH.

##### Ford Motor Co. (Keweenaw Bay)

2 Brown Hoists.  
Size of clam shells; two 2-ton.  
Capacity per 10 hours 1,800 tons.  
Storage capacity 20,000 tons.  
Depth of water at dock 21 feet.  
Can handle any size ship.  
R. R. Conn.: D. S. S. & A.

#### LEVIS, QUEBEC

##### Canadian National Railways

Dock located on St. Lawrence River.  
2 Mead-Morrison Bridges.  
2 ton clam shells used.  
Capacity per 8 hours 2,000 tons.  
Storage capacity 350,000 tons.  
Depth of water at dock 35 feet.  
Can handle any size boat.  
Length of dock 450 feet.  
R. R. Conn.: C. N. R. R.

##### Paquet & Fils, Ltd.

Dock located on St. Lawrence River.  
1 Lima crane.  
2 ton clam shell used.  
Capacity per 10 hours 2,000 tons.  
Storage capacity 10,000 tons.  
Depth of water at dock 35 feet.  
Length of dock 700 feet.  
R. R. Conn.: C. N. R. R.

#### LIME ISLAND, MICH.

##### North Western-Hanna Fuel Co.

Location Lime Island, 36 miles below Soo Locks.  
Self unloading vessels only.  
Can handle any size boat or beam.  
Fueling facilities: Eight fueling hoppers 850 ton capacity. Bry belt conveyor at 700 tons per hour. All coal weighed

while fueling.  
Storage capacity 24,000 tons.  
Draft 23 feet. Length of dock 800 feet.

#### LITTLE CURRENT, ONT.

##### Canadian Pacific Railway Co.

Location North side of Little Current Channel.  
Unloading equipment: 1 bridge; 5-ton clam bucket.  
1-3 ton crawler crane.  
Can handle any size vessel.  
Unloading capacity 7,200 tons daily.  
Storage capacity 500,000 tons.  
Draft 19 feet 3 inches.  
Length of dock 1,500 feet.

##### International Nickel Co., Ontario Refining Co., Pittsburgh Coal Co., Ltd., Valley Camp Coal Co. of Canada, Ltd.

(Use facilities of C. P. R. dock.)

#### LORAIN, OHIO

##### Toledo, Lorain & Fairport Co. (B. & O.)

Location, entrance to Harbor.  
One ore rig equipped with hopper to allow self unloading ships to unload direct to cars.

#### LUDINGTON, MICH.

##### Abrahamson-Neahiem Co.

Location Pere Marq. Lake, both sides of Lake, west of So. Washington Ave.  
Self unloading vessels only.  
Depth of water at dock 20 feet.  
Storage capacity 75,000 tons.  
Can handle any size ship.  
R. R. Conn.: P. M.

##### Michigan Public Service Co.

(Use facilities of Abrahamson - Neahiem Co.)

##### Soli & Co., Daniel

Location Pere Marq. Lake, south side of channel.  
Self unloading vessels only.  
Depth of water at dock 19 feet.  
Storage capacity 18,000 tons.  
Can handle any size ship.  
R. R. Conn.: L. and Pere Marq.

#### MACKINAC ISLAND, MICH.

##### Union Ticket Office & Docks.

Location, Mackinac Island.

Self unloading vessels only.  
Depth of water at dock 15 feet.  
Storage capacity 4,500 tons.  
Length of ship 500', 50' beam.

#### MANISTEE, MICH.

##### Falleen Drop Forge Co.

Location southwest end Manistee Lake.  
Self unloading vessels only.  
Storage Capacity 6,000 tons.  
Depth of water at dock 18 ft.  
Can handle any size ship.  
R. R. Conn.: None.

##### Filer Fibre Co.

Location at Filer City south end Manistee Lake on Manistee Harbor.  
Self unloading vessels only.  
Depth of water at dock 21 feet.  
Storage capacity 50,000 tons.  
Maximum length of ship 500', 54' beam.  
R. R. Conn.: M. & N. E., P. M.

##### Jebavy-Sorenson Coal Co.

Location on south side of River, west of Maple St. bridge.  
Self unloading vessels only.  
Depth of water at dock 20 feet.  
Storage capacity 12,000 tons.  
Maximum length of ship 500 feet.

##### Manistee Salt Works.

Location west shore Manistee Lake.  
Self unloading vessels only.  
Depth of water at dock 20 feet.  
Storage capacity 50,000 tons.  
Can handle any size ship.  
R. R. Conn.: M. & N. E.

##### Michigan Lumber Co.

Location northwest end of Manistee Lake.  
Self unloading vessels only.  
Depth of water at dock 15 to 18 feet.  
Storage capacity 7,000 tons.  
Maximum length of ship 450 feet.  
R. R. Conn.: P. M.

##### Morton Salt Co.

Location northeast of Power House, Manistee Lake.  
Self unloading vessels only.  
Depth of water at dock 19 feet.  
Storage capacity 100,000 tons.  
Can handle any size ship-not over 50' beam.  
R. R. Conn.: M. & N. E., P. M.



**Rademaker Chemical Corp.**

Location, on east side of Manistee Lake.  
Self unloading vessels only.  
Depth of water at dock 15 to 25 feet.  
Storage capacity 20,000 tons.  
R. R. Conn.: P. M.

**Sand Products Corp.**

1 conveyor with 60' length belt.  
Capacity 2,500 tons per hour.  
Ground storage 65,000 tons.  
Depth of water at dock 20 feet.  
Can handle any size ship.  
R. R. Conn.: M. & N.

**MANISTIQUE, MICH.****Girvin Coal & Dock Co. (Dock No. 2)**

Location, west side of Manistique River.  
Self unloading vessels only.  
Depth of water at dock 16 to 18 feet.  
Storage capacity 5,000 tons.  
Can handle any size ship.

**Girvin Coal & Dock Co.**

Location, east side of River.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage capacity 40,000 tons.  
Can handle any size ship.  
R. R. Conn.: Ann Arbor, M. & L. S. and  
Soo Line.

**MANITOWOC, WISCONSIN****Consumers Coal Co.**

Location, Spring St.  
Self unloading vessels only.  
Depth of water at dock 21 feet.  
Storage capacity 20,000 tons.  
Maximum length of ship 600 feet.  
R. R. Conn.: Soo Line.

**Manitowoc Land & Fuel Co.**

Location Quay St., east of Eighth St.  
bridge.  
Location Quay St. between Eighth and  
Sixth Sts.  
Length of dock 465 feet.  
Storage capacity 18,000 tons.  
Use self-unloading boats only.  
Depth of water at dock 18 feet, channel  
20 feet.  
Can handle any size boat.  
R. R. Conn.: C. & N. W., Soo Line.

**Manitowoc Portland Cement Co. (Soo Dock)**

Location, below upper Soo Bridge.  
1 Mead-Morrison Bridge-5 ton clam shell

Capacity per 10 hours 2,000 tons.  
Storage capacity 260,000 tons.  
Depth of water at dock 18 feet.  
Can handle any size ship.  
R. R. Conn.: Soo Line.

**Reiss Coal Co. (C. & N. W. Dock)**

Location, south side Mouth of River.  
1 Heyl & Patterson Bridge, 6-ton clam  
shell.  
Capacity per 10 hours 4,500 tons.  
Storage capacity 175,000 tons.  
Depth of water at dock 19 feet.  
Can handle any size ship.  
R. R. Conn.: C. & N. W.

**Spindler Co., The (Manitowoc Land & Fuel Co.)**

Location, east of 8th St. Bridge, south  
side of River.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage capacity 300,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. & N. W.

**MARBLEHEAD, OHIO****Kelley Island Lime & Transport Co.**

Location, east of Marble Head Coast  
Guard Station.  
Loading dock only-use loading belt.  
Depth of water at dock 20 feet east side,  
22 feet west side.  
Maximum length of ship 500', beam 60'.  
R. R. Conn.: Lakeside & Marblehead to  
N. Y. C.

**MARINE CITY, MICH.****McLouth Yards.**

Location, on St. Clair River, north of  
Brick Sugar factory Bldg.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage capacity 50,000 tons coal or stone.  
Can handle any size ship.  
R. R. Conn.: Pt. Huron & Detroit.

**Superior Concrete Co.**

Location St. Clair River at Marine City.  
Self unloading vessels only.  
Depth of water at dock 40 feet.  
Storage capacity 10,000 tons.  
Can handle any size ship.  
R. R. Conn.: Pt. Huron & Detroit.

**MARINETTE, WISCONSIN****Ansul Chemical Co.**

Location Menominee River.

Self unloading vessels only.  
Depth of water at dock 22 feet.  
Storage capacity 20,000 tons.  
Can handle any size ship.

**Marinette Fuel & Dock Co.**

Location foot of Ogden St.  
Self unloading vessels only.  
Depth of water at dock 17 feet.  
Storage capacity 35,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. & N. W., C. M. St. P. &  
P.

**Michela Coal & Dock Co.**

Location Foot of Ogden St.  
Self unloading vessels only.  
Maximum length 500 feet.  
Storage capacity 100,000 tons.  
Draft 19-20 feet. Length of dock 1,200 ft.

**Northland Fuels, Inc.**

Location, near mouth of Menominee River.  
Two unloading cranes.  
Also use self unloading vessels.  
Depth of water at dock 18 feet.  
Storage capacity 100,000 tons.  
Maximum length of ship 500', beam 52'.  
R. R. Conn.: C. & N. W., Milwaukee Rd.

**MARQUETTE, MICH.****Marquette Dock Co.**

Location, north end of Harbor.  
1 Mead-Morrison Bridge, 6 ton clam shell  
used.  
4 ton clean up clam used.  
Capacity per 10 hours 3,500 tons.  
Storage capacity 100,000 tons.  
Depth of water at dock 21 feet.  
R. R. Conn.: D. S. S. & A., L. S. & I.

**MARYSVILLE, MICH.****Detroit Edison Co.**

Location, on St. Clair River at Marys-  
ville.  
Self unloading vessels only.  
Depth of water at dock 22 feet.  
Storage capacity 340,000 tons.  
Can handle any size ship.  
R. R. Conn.: Grand Trunk.

**Morton Salt Co.**

Location, ¼ mile below Edison Power  
Plant, St. Clair River.  
Self unloading vessels only.  
Depth of water at dock 22 feet.  
Storage capacity 75,000 tons.

Can handle any size ship.  
R. R. Conn.: P. H. & D.

**MEAFORD, ONT.****Georgian Bay Milling & Power Co.**

Use self-unloading boats only.  
Storage capacity 4,000 tons.  
Depth of water at dock 19 feet.  
Can unload boats of any length.  
Length of dock 300 feet.  
Dock also used by W. M. Chapple and  
J. D. Ciglen & Co.

**MENOMINEE, MICH.****Central West Coal Co. (Div. Northwestern-Hanna Coal Co.)**

Location, foot of Pengilly St., ½ mile  
above bridge on north side.  
1 Electric bridge, 5 ton clam shell used.  
Capacity per 10 hours 3,500 tons.  
Storage capacity 325,000 tons.  
Depth of water at dock 20 feet.  
Can handle any size ship.  
R. R. Conn.: C. & N. W., St. P., W. &  
M.

**Hinker Coal Co.**

Location, Lakefront, 2 miles north of  
lighthouse.  
Self unloading vessels only.  
Depth of water at dock 12 ½' at bow, 15'  
at stern.  
Storage capacity 25,000 tons.  
Maximum length of ship 530' any beam.

**Marathon Corp.**

Location, north side at mouth of Menomi-  
nee River.  
Self unloading vessels only.  
Depth of water at dock 21 feet.  
Storage capacity 100,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. N., Mil. West. and A.  
& A.

**Superior Sugar Refining Co.**

Location, north bank, ½ mile above en-  
trance to River.  
Self unloading vessels only.  
Depth of water at dock 17 feet.  
Storage capacity 14,000 tons.  
R. R. Conn.: C. & N. W., Milwaukee Rd.,  
Ann Arbor car ferry.

**MICHIGAN CITY, IND.****Harbor Coal & Oil Co., Inc.**

Location, west of Franklin St. Bridge.

Self unloading vessels only.  
Depth of water at dock 15 feet.  
Storage capacity 15,000 tons.  
Can handle any size ship.  
R. R. Conn.: M. C.

### MICHIPICOTEN HARBOUR, ONT.

#### Commercial Dock (Algoma Central Ry. Co.)

Location in Harbor.  
Mead-Morrison rope trolley 5 ton clam shell used.  
3 ton clam shell for clean up.  
Capacity per 10 hours 3,000 tons.  
Storage capacity 265,000 tons.  
Depth of water at dock 20 feet.  
Can handle any size ship.  
R. R. Conn.: A. C. & H. B.

### MIDLAND, ONT.

#### Century Coal Co., Ltd.

Location, first dock on port side.  
1 Brown unloading bridge, 5 ton clam shell used.  
Capacity per 10 hours 3,000 tons.  
Depth of water at dock 25 feet.  
Storage capacity 275,000 tons.  
Can handle any size ship.  
R. R. Conn.: Grand Trunk.

#### Century Coal Co.

(Dock facilities used by the following companies):  
Canada Coal Co., Ltd.; Canadian National Rwy.; Empire-Hanna Coal Co., Ltd.; Rochester & Pittsburgh Coal Co.; Temiskaming & Northern Ontario Rwy. and F. P. Weaver Coal Co.

#### Midland Simcoe Elevator Co., Ltd.

Location, north side of Harbor, opposite town.  
2 McMyler Whirlies.  
Capacity per 10 hours 1,500 tons.  
Also use self unloaders.  
Depth of water at dock 22 feet.  
Storage capacity 30,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. P. R. or C. N.

Midland Simcoe Elevator Coal Dock facilities used by Valley Camp Coal Co., Ltd.; Pittsburgh Coal Co., Ltd.; F. P. Weaver Coal Co., Ltd.; Midland Coal & Wood Co.

### MILWAUKEE, WISCONSIN

#### Atlas Storage Co.

Location right bank Kinnickinnic River below Kinnickinnic Ave.

Office 710 W. Virginia St.  
Use trucks, conveyors, hoists.  
Depth of water at dock 21 feet.  
Maximum length of boat 520 feet with 60 foot beam.  
R. R. Conn.: C. M. St. P. & P. C. & N. W., Soo Line.

#### Callaway Fuel Co. (Dock No. 1 Cherry St.)

Location, on left bank of Milwaukee River, foot of Ogden Ave.  
1 Electric bridge.  
3½ ton clam shell used.  
Capacity per 10 hours 2,500 tons.  
Storage capacity 37,000 tons.  
Depth of water at dock 20 feet.  
Maximum length of ship 480 feet.

#### Callaway Fuel Co. (Commerce St. Dock No. 2)

Location, on right bank of Milwaukee River, above Holton St. Bridge.  
1 portable bridge type.  
Size of clam shell used 2 ton.  
Capacity per 10 hours 1,000 tons.  
Depth of water at dock 19 feet.  
Maximum length of ship 480 feet.  
R. R. Conn.: C. M. St. P. & P.

#### Callaway Fuel Co. (Commerce St. Dock No. 3)

Location, at Holton St. Viaduct.  
Self unloading vessels only.  
Depth of water at dock 19 feet, 6 inches.  
Storage capacity 120,000 tons.  
Maximum length of ship 500 ft., 52 ft. beam.  
R. R. Conn.: C. M. & St. P.

#### Center Street Fuel Co., No. 1 Dock.

Location, Walnut St. Bridge on Milwaukee River.  
Self unloading vessels only.  
Depth of water at dock 21 feet.  
Storage capacity 30,000 tons.  
R. R. Conn.: C. M. St. P. & P.

#### Center Street Fuel Co., Dock No. 2.

Location, junction of Kneelands Canal & Menominee River.  
Self unloading vessels only.  
Depth of water at dock 19 feet.  
Storage capacity 70,000 tons.  
800 feet dockage.  
R. R. Conn.: C. M. St. P. & P.

#### Fellenz Coal & Dock Co. (Canal St. Dock)

Location, Starboard side of So. Menominee Canal, Junction of So. Menominee

Canal and Burnham Canal.  
Self unloading vessels only.  
Depth of water at dock 19 feet.  
Storage capacity 100,000 tons.  
Maximum length of ship 525', beam 56'.  
R. R. Conn.: C. M. St. P. & P.

#### Gallun & Sons Corp., A. F.

1818 N. Water St.  
Depend on self-unloading boats entirely.  
Storage capacity 10,000 tons.  
Depth of water at dock 16 to 17 feet, but 30 feet from dock.  
Can handle boat 356 foot length and 50 foot beam.  
Length of dock 500 feet.

#### Hansen Storage Co. (Warehouse 7 and 8)

Location, mouth of Milwaukee River adjacent to Harbor.  
1 electric cable hoist with 30 foot boom.  
Package freight dock.  
Depth of water at dock 21 feet.  
Can handle any size ship.

#### Kuesel Coal Co., Arthur

Location, on south Menominee River.  
Use self unloading vessels only.  
Depth of water at dock 20 feet.  
Storage capacity 150,000 tons.  
Maximum length of ship 520 feet, 58' beam.  
R. R. Conn.: S. M. St. P. & P.

#### Lakeshore Sand & Stone Co.

(Use facilities of Sand Prod. Corp.)

#### Leszczynski Fuel Co.

Location Kinnickinnic River, west bank south of Becher St. Bridge.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage capacity 50,000 tons.  
Maximum length of ship 315', beam 60'.  
R. R. Conn.: C. & N. W.

#### Milwaukee Fuel & Dock Co.

Location, South side of Menominee River at 12th St.  
Self unloading boats only.  
Any size boat.  
Storage capacity 75,000 tons.  
Depth 21 feet. Length of dock 1,000 feet.

#### Milwaukee Gas Light Co. (West Side Dock)

626 E. Wisconsin Ave.  
West Menominee River at 25th St.

3 Brown Hoists.  
2 ton clam shells used.  
1 ton buckets used.  
Capacity per 10 hours 5,000 tons.  
Storage capacity 300,000 tons.  
Depth of water at dock 20 feet.  
Maximum length of boat 600 feet.  
R. R. Conn.: C. M. St. P., C. N. W., Soo Line.

#### Milwaukee Solway Coke Co.

Location, Kinnickinnic River south of C. & N. W. Bridge.  
2 Brown Hoists, 1 Johnson electric.  
2½ ton clam shells used.  
Capacity per 10 hours 6,000 tons.  
Storage capacity 450,000 tons.  
Depth of water at dock 20 feet.  
Can handle 600 ft. ship, 60' beam.  
R. R. Conn.: C. & N. W., St. P., Soo. C. M. St. P. & P.

#### Municipal Harbor Terminal

Board of Harbor Commissioners.  
709 City Hall, Milwaukee, Wis.

#### Municipal South Pier No. 1

Location Lake Michigan, east side of Jones Island, just south of Harbor entrance.  
2 25-ton Gantry cranes, 2 30-ton locomotive cranes, plus all auxiliary equip.  
Depth of water at dock 21 feet.  
Storage capacity 50,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. & N. W.

#### Municipal Mooring Basin.

Location, east bank Kinnickinnic basin, ½ mile south Harbor entrance.  
Used for mooring basin only.  
Depth of water at dock 20 feet.

#### Municipal Open Dock Terminal.

Location, east bank Kinnickinnic basin just south of Harbor entrance.  
2 25-ton Gantry Cranes.  
2 30-ton Locomotive cranes, plus all aux. equip.  
Storage capacity 50,000 tons.  
Depth of water at dock 20 feet.  
Can handle any size ship.  
R. R. Conn.: C. & N. W.

#### Municipal Transit Shed No. 1 (Atlas Storage)

Location, north side of south slip No. 1 just south of Harbor entrance.

2 5-ton Semi-portable Gantry cranes.  
Depth of water at dock 22 feet.  
Can handle any size ship.  
R. R. Conn.: C. & N. W.

#### National Terminals Corp.

Location, immediately south of Harbor entrance on Kinnickinnic River, west side of River.  
40' boom.  
Storage capacity 90,000 square feet.  
Depth of water at dock 20 feet.  
Maximum length of ship 500', beam 50'.  
R. R. Conn.: C. & N. W.  
This is a package freight dock.

#### North Western-Hanna Fuel Co. (Dock No. 8)

Location, Kinnickinnic River.  
Unloading equipment: 2 Heyl-Patterson 3 ton bridges.  
Unloading capacity 3,000 tons per 10 hours.  
Storage capacity 180,000 tons.  
Draft 19 feet. Length of dock 1,200 feet.

#### North Western-Hanna Fuel Co. (Dock No. 9)

Location, 13th St., North Menominee River.  
Unloading equipment: 1 Heyl-Patterson 8 ton; 2 Mead-Morrison 10 ton bridges.  
Unloading capacity 400 tons per hour.  
Storage capacity 450,000 tons.  
Draft 20 feet. Length of dock 2,800 feet.

#### North Western-Hanna Fuel Co. (Dock No. 10)

Location, Menominee River at 12th St. 1 Mead-Morrison Man Trolley Bridge, 10 ton clam shell used.  
Clean-up clam, 6 ton, and 7½ ton digger.  
Capacity per 10 hours 3,500 tons.  
Storage capacity 180,000 tons.  
Depth of water at dock 29 feet.  
Can handle 600 ft. ship, 60 ft. beam.  
R. R. Conn.: C. M. St. P. & P., C. & N. W.

#### Sand Products Corp.

Location across from Northwestern fuel on port side, Menominee River, 10th St. Moore Speed Whirlies with 60' boom. Crane for rehandling.  
Size of clam shell used ½ ton.  
Self unloading vessels only.  
Storage capacity 60,000 tons sand.  
Depth of water at dock 19 feet.

Can handle any size ship.  
R. R. Conn.: C. M. St. P. & P.

#### Schneider Fuel & Supply Co. (E. Burnham Dock)

Location Burnham Canal east of 11th St. Bridge.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage capacity 30,000 tons.  
Maximum length of ship 525', beam 60'.  
R. R. Conn.: S. M. St. P. & P.

#### Schneider Fuel & Supply Co. (Canal St. Dock)

Location west end south Menominee Canal.  
Self unloading vessels only.  
Storage capacity 50,000 tons.  
Depth of water at dock 20 feet.  
Maximum length of ship 525', beam 60'.

#### Terminal Warehouse Co.

Location at Junction Milwaukee & Menominee Rivers.  
Package freight dock.  
Depth of water at dock 19 feet.  
Can handle any size ship.  
R. R. Conn.: C. M. St. P. & P.

#### Trostle & Sons Co., Albert

Location Milwaukee River at Commerce St.  
Self unloading vessels only.  
Depth of water at dock 17 feet.  
Storage capacity 6,000 tons.  
Maximum length 500', beam 54'.

#### United Coal & Dock Co. (Briquet Plant Dock)

Location on S. Menominee Canal west of Sixth St. Bridge.  
Use self-unloading boats only.  
Storage capacity 100,000 tons.  
Depth of water at dock 21 feet.  
Can unload 525 foot boat with 56 foot beam.

#### United Coal & Dock Co. (Gross)

Location So. Menominee Canal just thru 6th St. Viaduct.  
Self unloading vessels only.  
Depth of water at dock 20 feet.  
Storage capacity 250,000 tons.  
Maximum length of ship 450', beam 54'.  
R. R. Conn.: C. M. St. P. & P., Soo. N. W.

#### United Coal & Dock Co. (Independent)

Location Kinnickinnic basin just inside piers.  
2 electric bridges.  
4 ton clam shells used.  
Capacity per 10 hours 5,000 tons.  
Depth of water at dock 21 feet.  
Can handle any size ship.  
Storage capacity 250,000 tons.  
R. R. Conn.: C. & N. W., C. M. St. P. & P., Soo.

#### Universal Atlas Portland Cement Co.

Location Menominee River above 6th St. Bridge.  
Equipped to handle bulk cement by pipe line from Fuller Kinyon pump on barge.  
Length of dock 530 feet.  
Depth of water at dock 21 feet.

#### Virginia Coal & Supply Co. (Holt St. Dock)

Location N. Commerce at N. Holt St.  
Self unloading vessels only.  
Depth of water at dock 17 feet, 6 inches.  
Storage capacity 35,000 tons.  
Maximum length of ship 504', beam 54'.  
R. R. Conn.: C. M. St. P. & P., C. & N. W., Soo Line.

#### Virginia Coal & Supply Co.

Location just below Racine St. Bridge.  
Self unloading vessels only.  
Depth of water 16 to 17 ft. about 30' from dock.  
Storage capacity 50,000 tons.  
Maximum length of ship 525', beam 54'.  
R. R. Conn.: C. M. St. P. & P.

#### Wisconsin Great Lakes Coal & Dock Co.

Location, north Menominee canal at 20th St., south side of canal.  
2 Mead-Morrison Bridges.  
Size of clam shell used 10 ton.  
Capacity per 10 hours 12,000 tons.  
Storage capacity 575,000 tons.  
Depth of water at dock 20 feet.  
Can handle any size ship.  
R. R. Conn.: St. P., C. & N. W., Soo.

#### Wisconsin Ice & Fuel Co. (Lehigh Valley Dock)

Location, South Menominee River.  
Unloading equipment: 2 Mead-Morrison steel towers.  
Capacity 2 ton each.  
Maximum length of boat 504 ft. x 54 ft.  
Unloading capacity 400 ton per hour.

Storage capacity 65,000 tons.  
Draft 19 feet. Length of dock 307 feet.

#### Wisconsin Ice & Coal Co. No. 1

Location 16th St. foot of Canal St. Office 1518 E. North Ave.  
1 Hannischfegere, 1 Osgood.  
1 55-foot boom and 1 57-foot boom.  
Size of clamshells used 1½ ton and 2 ton.  
Capacity per 10 hours 1,000 tons.  
Use self-unloading boats only.  
Storage capacity 250,000 tons.  
Depth of water at dock 19 feet.  
Maximum length of boat 600 feet with 60 foot beam.  
R. R. Conn.: C. M. St. P. & P., C. & N. W., Soo Line.

#### Wisconsin Ice & Coal Co. No. 2.

Location 12th St. foot of Canal St., Menominee River.  
Office 1518 E. North Ave.  
3 Hannischfeger Rigs, 2 with 45 foot booms and 1 63-foot boom.  
2 1-ton clamshells used and 1 2½-ton.  
Capacity per 10 hours 1,000 tons.  
Use self-unloading boats only.  
Storage capacity 90,000 tons.  
Depth of water at dock 19 feet.  
Maximum length of boat 600 feet with 60 foot beam.  
R. R. Conn.: C. M. St. P. & P., C. & N. W., Soo Line.

#### Wisconsin Reading Coal & Dock Co.

Location, On Menominee Canal at 10th St.  
Unloading equipment: 2 Mead-Morrison steam hoists 2½ ton bucket.  
Unloading capacity 400 tons per hour.  
Maximum length of boat 525 x 60 ft.  
Storage capacity 125,000 tons.  
Draft 19½ feet. Length of dock 635 feet.

#### Wisconsin Peading Coal & Dock Co.

Location, On Menominee River, W. 16th St. Viaduct.  
Self unloading vessels only.  
Maximum size boat 600 x 60 ft.  
Storage capacity 275,000 tons.  
Draft 22 feet. Length of dock 985 feet.

#### Youghiogheny & Ohio Coal Co.

Location So. Menominee River (Wagner Slip).  
2 Mead-Morrison, 5 ton clam shell used.  
Capacity per 10 hours 4,000 tons.  
Storage capacity 250,000 tons.



Depth of water at dock 19 feet, 6 inches  
Maximum length of ship 430', beam 52'  
R. R. Conn.: St. Paul, C. & N. W., Soo.

### MONROE, MICH.

#### Aluminum Co. of America.

Location on Raisin River, north side.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
R. R. Conn.: M. C.

#### Consolidated Paper Co.

Location North side of Harbor.  
Self unloading vessels only.  
Depth of water at dock 21 feet.  
Storage capacity 50,000 tons.  
Can handle any size ship.

#### Consolidated Paper Co.

Location South side of Harbor.  
Self unloading vessels only.  
Depth of water at dock 21 feet.  
Storage capacity 50,000 tons.  
Can handle any size ship.

#### Monroe Coal & Dock Co.

Location west side of River Raisin.  
Self unloading vessels only.  
Depth of water at dock 22 feet.  
Storage capacity 75,000 tons.  
Can handle any size ship.  
R. R. Conn.: M. C.

#### Monroe Harbor Terminal.

Location south side of River Raisin, east side of turning basin.  
2 Electric cranes with 26' booms.  
Depth of water at dock 18 feet.  
Unlimited open storage.  
14,000 sq. ft. of covered storage.  
Can handle any size ship.  
R. R. Conn.: N. Y. C.  
Also self unloading vessels.

#### Monroe Paper Products Co.

(Use facilities of Monroe Harbor Terminal).

#### River Raisin Paper Co.

Location on River Raisin opposite Municipal dock on north side.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage capacity 100,000 tons.  
Can handle any size ship.

#### St. Marys Academy.

(Use facilities of Monroe Dock Co.)

### MONTREAL, QUE.

#### Bras D'or Coal Sales, Ltd.

Location National Harbor, Sec. 32.  
Self unloading vessels only.  
Depth of water at dock 30 feet.  
Storage capacity 35,000 tons.  
R. R. Conn.: C. N., C. P., Harbor Tracks.

#### British Coal Corp.

(Use facilities of Canadian Import Dock).

#### Canada Cement Co., Ltd., Plant No. 1

Location, Section 100, Montreal Harbor.  
1 Mead-Morrison Bridge.  
5 ton clam shell used.  
Capacity per 10 hours 2,500 tons.  
Storage capacity 150,000 tons.  
Depth of water at dock 25 feet.  
Maximum length of ship 600', beam 60'.  
R. R. Conn.: C. N., C. P. R.

#### Canada Cement Co., Ltd.

Location, Section 96, Montreal Harbor.  
1 Mead-Morrison Electric crane, 5 ton bucket used.  
Capacity per 10 hours 2,500 tons.  
Storage capacity 200,000 tons.  
Depth of water at dock 25 to 30 feet.  
Maximum length of ship 500 feet.  
R. R. Conn.: C. N., C. P. R., M. T. R., N. Y. C.

#### Canada Cement Co. (Lehigh Dock)

Location, in the Bay of Quinte.  
1 Brown Hoist.  
Size of clam shell used 1 yard.  
Capacity per 10 hours 500 tons.  
Depth of water at dock 16 feet.  
Can handle any length ship.  
R. R. Conn.: Thurlow R. R., C. P. R., C. N.

#### Canadian Import Co., Ltd.

1 fueling barge with Brown Hoist.

#### Canadian Import Co., Ltd. (Bickerdike Pier Dock)

Location near entrance of Lachine Canal.  
Sec. 7, 8, 9, 10 and 11.  
3 Cantilever towers and cranes.  
Size of clam shell used, 2 ton.  
Capacity per 10 hours 7,500 tons.  
Depth of water at dock 26 feet.  
Storage capacity 450,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. N., C. P. R.

#### Canadian Import Co., Ltd. (Vulcan Dock)

Location, Section 71.  
2 Electric cranes, 4 ton clam shells used.  
Depth of water at dock 30 feet.  
Capacity per 10 hours 2,500 tons.  
Storage capacity 250,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. N., C. P. R.

#### Canada & Dominion Sugar Co., Ltd.

Location, Wellington Basin, Lachine Canal.  
1 Jeffrays unloading rig.  
Capacity each set per 10 hours 600 tons.  
Storage capacity 25,000 tons.  
Depth of water at dock 14 feet, 6 inches.  
Maximum length of ship 250 feet.  
R. R. Conn.: C. P. R. and G. T.

#### Canadian Rolling Mills.

#### (Canadian Tube & Steel Prod., Ltd.)

Location, Lachine canal, Cote, St. Paul.  
1 Mead-Morrison Tower.  
Size of clam shell used 1 ton.  
Capacity per 10 hours 1,000 tons.  
Storage capacity 15,000 tons.  
Depth of water at dock 14 feet.  
Maximum length of ship 300 feet.  
R. R. Conn.: G. T., C. N., C. P. R.

#### Central Paper Co.

Self unloading vessels only.  
Storage capacity 100,000 tons.  
Can handle any size ship.  
Depth of water at dock 21 feet.

#### Century Coal Co.

Location, south side of harbor at entrance to Lock No. 1.  
2 Brown Hoist electric rigs with 70' booms.  
Size of clam shell used, 2 ton.  
Capacity per 10 hours 1,000 tons.  
Storage capacity 30,000 tons bituminous, 7,000 tons anthracite.  
Depth of water at dock 22 feet.  
Maximum length of ship at section 11, 300 feet; at section 35, 500 feet.  
R. R. Conn.: C. P. R.

#### Dominion Steel & Coal Co., Ltd., (Hoche-lago Dock)

Location, Section 37, Montreal Harbour.  
4 Steam Towers.  
Capacity per 10 hours 7,000 tons.  
Depth of water at dock 30 feet.  
Storage capacity 35,000 tons.

Any length, 50' beam.  
R. R. Conn.: C. P. R.

#### Dominion Steel & Coal Co., Ltd., (Windmill Point Dock)

Location, Section 5, east.  
5 Steam Towers.  
Capacity per 10 hours 15,000 tons.  
Depth of water at dock 30 feet.  
Storage capacity 1,000,000 tons.  
Maximum length of ship 600', beam 60'.  
R. R. Conn.: C. N.

#### Iroquois Fuel Importers, Ltd.

Location, Section 35, Montreal Wharf.  
National Harbour Board cranes.  
Capacity per 10 hours 3,000 tons.  
Depth of water at dock 30 feet.  
Storage capacity 85,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. N. R. and C. P. R.

#### Mongeau & Robert Cie, Ltd.

Location, Sections 57-58.  
Unloading equipment: 1 overhead bridge.  
Unloading capacity 250 tons per hour.  
Any size ship.  
Storage capacity 120,000 tons.  
Draft 31 feet. Length of dock 1,395 feet.

#### Montreal Coke & Manufacturing Co.

(La Salle Gas Works)  
Location on Lachine Canal.  
1 Mead-Morrison, 2½ ton clam shell used.  
Capacity per 10 hours 2,500 tons.  
Self unloading boats only.  
Storage capacity 300,000 tons.  
Depth of water at dock 14 feet, 6 inches.  
Maximum length of ship 256 feet.

#### Nova Scotia Steel & Coal Co., Ltd.

Location Bickerdike Pier, Windmill Point.  
2 towers.  
1½ ton clam shells used.  
Capacity per 10 hours 400 tons.  
Storage capacity 150,000 tons.  
Depth of water at dock 28 feet.  
Can handle any size ship.  
R. R. Conn.: C. N. R.

#### Oka Sand & Gravel Co.

Location No. 1 basin, Lachine Canal.  
1 geared Lidgetwood.  
1 direct hoist.  
1½ ton clam shell used.  
Capacity per 10 hours 1,200 tons.



Depth of water at dock 14 feet.  
Maximum length of ship 260 feet.

#### Richelieu Coals, Ltd.

Location, Sections 38, 39 and 40.  
1 Bridge.  
Capacity per 10 hours 3,000 tons.  
Storage capacity 100,000 tons.  
Depth of water at dock 35 feet.  
Can handle any size ship.  
R. R. Conn.: C. N. and C. P. R.

#### Robertson Farquhar.

Location, No. 3 Basin, Lachine Canal.  
1 Mead-Morrison.  
1½ ton clam shell used.  
Capacity per 10 hours 1,500 tons.  
Storage capacity 40,000 tons.  
Depth of water at dock 14 feet.  
Can handle any size ship.

#### Rocnester & Pittsburgh Coal Co.

Location Lachine Canal, Wellington Basin.  
1 Mead-Morrison.  
Size of clam shells used 2 tons.  
Capacity per 10 hours 1,000 tons.  
3 portable cranes for reclaiming.  
Storage capacity 50,000 tons.  
Depth of water at dock 16 feet.  
Maximum length of ship 256', beam 42'.  
R. R. Conn.: C. N., Fueling Station.

#### Routh & Son, F. A.

1 rig installed on Barge McMartin.  
Clam shell used.  
Capacity per 10 hours 500 tons.

#### Scotch Anthracite Coal Co., Ltd.

Location Harbor front, Sections 56, 57 and 58.  
1 Bridge crane.  
Capacity per 10 hours 3,000 tons.  
Depth of water at dock 35 feet.  
Storage capacity 120,000 tons.  
Can handle any length ship-50' beam.  
R. R. Conn.: C. P. R., C. N.

#### Weaver Coal Co., Ltd., F. P. (Racine Dock)

Location, Section 62, Montreal Harbor.  
Browning Locomotive cranes.  
Size of clam shell used, buckets 1½ yard.  
Capacity per 10 hours 1,000 tons.  
Method of storage direct from vessel.  
Depth of water at dock 25 feet.  
Maximum length of ship 500 feet.  
R. R. Conn.: H. C. M., C. N., C. P. R.

#### Weaver Coal Co., Ltd., F. P.

(Use facilities of Canada Cement Dock in Sec. 96).

#### MORRISBURG, ONT.

##### Bruce Coal Co., Ltd.

Location 3 miles west of Morrisburg.  
Self unloading vessels.  
Depth of water at dock 15 feet.  
Storage capacity 20,000 tons.  
Maximum length of ship 250 ft.

#### MUNISING, MICH.

##### Munising Coal Co.

Location west of Munising Paper Co. dock and east of City Dock.  
Self unloading vessels only.  
Depth of water at dock 22 feet.  
Storage capacity 20,000 tons.  
Can handle any size ship.  
R. R. Conn.: L. S. & I.

##### Munising Paper Co.

Location, south corner of bay.  
1 Mead-Morrison Rig.  
2¼ ton clam shell buckets used.  
Capacity per 10 hours 1,750 tons.  
Storage capacity 40,000 tons.  
Depth of water at dock 20 feet.  
Can handle any size ship.  
R. R. Conn.: L. S. & I., D. S. S. & A., C. N. W., Soo, Ann Arbor.

#### MUSKEGON, MICH.

##### Bauknecht Brothers Rental Co.

Location end of 8th St.  
Self unloaders only.  
Depth of water at dock 14 to 18 feet.  
Storage capacity 20,000 tons.  
Maximum length of ship 400', beam 40'.  
R. R. Conn.: P. M.

##### Central Paper Co. (Central Dock & Coal Co.)

Location on Muskegon Lake, 1st dock.  
Self unloading vessels only.  
Depth of water at dock 21 feet.  
Storage capacity 100,000 tons.  
Can handle any size ship.  
R. R. Conn.: P. M.

##### Central Paper Co. (Pulp-Wood Dock)

Location Lake Shore Drive and Muskegon Lake.  
1 northwest crane with a 55 foot boom.  
Capacity per 24 hours 500 cords.  
Can handle any size ship.

Depth of water at dock 20 feet.  
Give 24 hour service in unloading.

#### Consumer's Power Co.

Location mouth of Muskegon River.  
Stationary unloading tower.  
Capacity 1,000 tons per hour.  
Length of dock 900 feet.  
Depth of water at dock 24 feet.  
Can handle any size ship.  
Storage capacity 500,000 tons.  
Size of clam 10 tons.  
Dock equipped with small caterpillar bulldozer in place of clean-up bucket.  
Dock equipped with special hopper for receiving coal from self-unloaders.

#### Continental Motors Corp.

Location Muskegon Lake, two miles from entrance.  
Self unloading vessels only.  
Depth of water at dock 17 feet.  
Storage capacity 80,000 tons.  
Can handle any size ship.  
R. R. Conn.: P. M. and G. T.  
Also have fueling facilities for boats.

#### Huron Portland Cement Co.

Location Muskegon Lake.  
Address Lake Shore Drive.

#### Kimball Company (Fisher, Harry A.)

Location south side of Muskegon Lake, east of 3rd St.  
Self unloading vessels only.  
Depth of water at dock 15 to 21 feet.  
Storage capacity 50,000 tons.  
Can handle any size ship.  
R. R. Conn.: G. T., P. M.

#### Muskegon Dock & Fuel Co.

Location, south shore Muskegon Lake, foot of 4th St.  
Self unloading vessels only.  
Depth of water at dock, 20 feet.  
Storage capacity 150,000 tons coal.  
Can handle any size vessel.  
R. R. Conn.: P. M., G. T., Penn.  
Have fueling facilities.

#### Sand Products Corp. (Pt. Sherman Pit).

Location, south of channel into Muskegon Lake.  
Load sand only.  
1 conveyor with 52 inch belt, length 660'.  
Capacity per hour 1,250 tons.  
Depth of water at dock 20 feet.

Can handle any size ship.  
No rail connections.

#### West Michigan Dock & Market Corp.

(The Mart).  
Location south side of Muskegon Lake, east south east ½ mile from Hartshorn Light.  
2 20-ton cranes.  
Capacity per 10 hours 1,000 tons.  
Depth of water at dock 22 feet.  
Storage capacity, covered 160,000 sq. ft., open 5 acres.  
Can handle any size ship.  
R. R. Conn.: P. M., PRR., G. T.

#### White Lake Dock & Fuel Co.

Location, Montague on White Lake.  
Self unloading vessels only.  
Depth of water at dock 15 feet.  
Storage capacity 3,000 tons.  
Can handle any size ship.

#### White Lake Dock & Fuel Co.

Location, north shore 1 mile below head of White Lake.  
Self unloading vessels only.  
Depth of water at dock 17 feet.  
Storage capacity 15,000 tons coal and limestone.  
Can handle medium size vessels.

#### Wiener Dock & Terminal Co.

Location, 11th Street.  
Self unloading vessels only.  
Any size boat.  
Storage capacity 100,000 tons.  
Draft 21-24 feet. Length of dock 1,000 ft.

#### Wisconsin & Michigan Steamship Co.

Location Muskegon Lake, foot of Mart Street.  
Use dock of West Michigan Dock & Market Corp.  
Depth of water at dock 21 feet.  
Can handle any size boat.  
R. R. Conn.: P. R. R., P. M.

#### Wisconsin & Michigan Steamship Co.

Location Muskegon Lake, foot of Mart St.  
Use dock of West Michigan Dock & Market Corp.

#### NAHMA, MICH.

#### Bay De Noquet Co.

Self unloading vessels only.

Depth of water at dock 14 feet.  
Storage capacity 2,000 tons.

### NAPANEE, ONT.

#### Napanee Fuel & Supply Co.

Location, end of Napanee River.  
Self unloading vessels only.  
Depth of water at dock 10 feet, 6 inches.  
Storage capacity 20,000 tons.  
Maximum length of ship 120 feet.  
R. R. Conn.: C. N. only.

#### Rochester & Pittsburgh Coal Co., Can. Ltd.

(Use facilities of Napanee Fuel Dock).  
Storage capacity 5,000 tons bituminous.

#### Wilped S. Wilson.

Location foot of West St.  
Self unloading vessels only.  
Storage capacity 6,000 tons.  
Depth of water at dock 10 to 12 ft.  
Canal size vessels.  
R. R. Conn.: Canadian National.

### N. TONAWANDA, N. Y.

#### Penson Coal Dock (Tug fueling only).

Location, Terminal Pier on Barge Canal.  
Elevator and gravity to tugs.  
Depth of water at dock 12 feet.  
Storage capacity 100 tons.

#### Byrne Fuel Corp. Dock

Location, on Niagara River, south of Tonawanda Iron Co.  
1 Electric Magnet.  
1 derrick wharf, will reach 25 ft. from edge of dock.  
Size of clam shell bucket used, 1 yard.  
Size of other buckets used  $\frac{1}{2}$  ton.  
Capacity per 10 hours 300 tons.  
Can handle 60 tons of steel per hour.  
Storage capacity 20,000 tons.  
Depth of water at dock 15 feet.  
Maximum length of ship 400 ft., beam 35 ft.  
R. R. Conn.: Erie, N. Y. C., Lehigh Valley.

#### International Paper Co.

Location, north end of Tonawanda Island on east channel.  
Pulp wood dock.  
2 Brown Hoists.  
Depth of water at dock 16 feet.  
Storage capacity 25,000 cords.  
Maximum length of ship 500', beam 50'.

### OGDENSBURG, N. Y.

#### Hall Corporation, George (Fueling Dock)

Location, Center of harbor, Foot of Franklin Street  
Coal—Clamshell on 60 ft. Boom  
Capacity—100 tons per hour  
Diesel oil—Pumped direct from storage  
Depth of water—21 ft. Easy Accessibility  
No Delays Day or Night—Pilot Service  
Storage capacity—coal 150,000 tons oil 10,000,000 gallons  
Unloading—Require self unloaders  
Any size boat  
1000 foot dock  
Phones—Office 60, Dock 311  
Nights—Sundays & Holidays 368

#### Hall Corp., George (Upper Dock)

Location, foot of Franklin St. in upper harbor.  
Mead-Morrison Stationary Tower.  
Capacity per 10 hours 1,500 tons.  
Depth of water at dock 17 feet.  
Tug fueling.  
Storage capacity 10,000 tons.  
Can handle any size ship, beam 48'.

#### Madden Coal Corp.

(Valley Camp Coal, Fuel Dock Co.)  
Location, 1 mile west of Ogdensburg.  
Self unloading vessels only.  
1 Brown Hoist Caterpillar crane with 50' boom.  
Size of clam shell,  $\frac{1}{4}$  yd.  
Belt conveyor boom type bunker fuel rig  
Link belt with weightometer.  
Fueling capacity 300 tons per hour.  
Open storage for self unloading ships 20,000 tons.  
Depth of water, 18 ft.  
Can handle any size ship.

### OJIBWAY, ONT.

#### Canadian Steel Limited.

### ONTONAGON, MICH.

#### Gitche Gumee Oil Co.

Location, East Side of Harbor.  
Self unloading boats only.  
Storage capacity 18,000 tons.  
Depth of water at dock 18 feet.  
Maximum length of boat 550 feet.  
R. R. Conn.: C. M. St. P. & P.

#### Lake Superior District Power Co.

Use self-unloading boats only.

#### Lake Superior Lumber Corp.

Use self-unloading boats only.

#### Ontonagon Fibre Co.

Location, in the Harbor.  
Self unloading vessels only.  
Private dock.

#### Riverside Supply Co.

Location, east side of river.  
Self unloading vessels only.  
No sheds, open storage on dock.  
Depth of water at dock 14 to 16 feet.  
Maximum length of ship 400 feet, beam no limit.  
R. R. Conn.: C. M. St. P. & P.

### OSHAWA, ONT.

#### Cargo Dockers Limited

Rochester & Pittsburgh Coal Co., Ltd.  
320 Bay St., Toronto.  
Location extreme north end of harbor.  
Use self-unloading boats and bulk carriers.  
Storage capacity 40,000 tons.  
Can handle any size boat.  
Depth of water at dock 24 feet, channel 24 feet.  
Length of dock 250 feet, slip 1500 feet width 125 feet.

#### Dixon Coal Co.

(Use facilities of Rochester & Pittsburgh Coal Co., Ltd.)

#### McLaughlin Coal & Supply, Ltd.

Location, Oshawa Harbor.  
Self unloading vessels only.  
Depth of water at dock 28 feet.  
Storage capacity 50,000 tons.  
Can handle any size ship.

#### Pittsburgh Coal Co., Ltd.

Location, Oshawa Harbor.  
Self unloading vessels only.  
Storage capacity 15,000 tons.  
Depth of water at dock 22 feet.  
Can handle any size ship.  
R. R. Conn.: C. N.

#### Rochester & Pittsburgh Coal Co., Ltd.

Location, north end farthest from piers.  
Self unloading vessels only.  
Depth of water at dock 20 feet.  
Storage capacity 50,000 tons.  
Maximum length of ship 400', beam 60'

#### Valley Camp Coal Co., The

Location, on water front.  
Self unloading vessels only.  
Depth of water at dock 16 feet.  
Storage capacity 5,000 tons bituminous.  
Maximum size of ship 350 feet.  
Coal taken off dock by truck only.

### OSWEGO, N. Y.

#### Central New York Power Corp.

Location, W. Harbor.  
Self unloading vessels only.  
Any size boat.  
Storage capacity 600,000 tons.  
Draft 21 feet. Length of dock.

#### De'aware, Lackawanna & Western R. R. Co.

Dock located on west side foot 3d St.  
Dock is equipped with one metal belt conveyor type, with electric telescopic chute and trimmer.  
Capacity loading 8,000 tons in 10 hours.  
No storage space; load direct from cars.  
Depth of water at dock 21 feet.  
Maximum boat that can reach the dock is 550 feet length.  
R. R. Conn.: N. Y. C.

#### Division of Canals & Waterways (Lake Terminal Dock)

Location, foot of West 1st St.  
2 Shaw cranes and 2 10-ton derrick vessels when needed.  
Depth of water at dock 21 feet.  
Can handle any size ship.  
R. R. Conn.: D. L. & W.

#### Montcalm Dock Co., Inc.

Location, north west side of Oswego River.  
Self unloading vessels only.  
1 North West Clam Crane 45' boom.  
Use 1 yard bucket.  
Depth of water at dock 24 feet.  
Storage capacity 50,000 tons.  
Can handle any size ship.  
R. R. Conn.: D. L. & W.-2 tracks.

#### New York, Ontario & Western R. R.

Location East Cove, foot of East 2nd St., North.  
4 warehouses with 32,000 square foot floor space.  
One slip 400 feet long, 120 feet wide with 16 foot water at dock.  
One 500 foot dock with 22 foot of water.  
One dock 250 feet long with 22 feet of water.

Two stiff legged cranes of 5 tons capacity with 60 foot booms.  
Size of buckets used 1½ yards.  
Capacity per 10 hours both rigs 1,500 tons.  
Can handle any size ship.  
R. R. Conn.: N. Y. O. & W. R. R.

#### OWEN SOUND, ONT.

##### Canadian Pacific Ry. Co.

Location, Owen Sound.  
Self unloading vessels only.  
Storage capacity 3,000 tons.  
Depth of water at dock 18 feet.  
Can handle any size ship.  
R. R. Conn.: C. P. R., C. N.

##### Creighton, A. J.

Location, 1st Ave., E.  
Self unloading vessels only.  
Depth of water at dock 18' south side, 21' north side.  
Storage capacity 10,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. P. R., C. N.

##### Davis-Smith-Malone Co., Ltd.

Location, first ave. east, north of C. P. R. dock.  
Self unloading vessels only.  
Depth of water at dock 20 feet.  
Storage capacity 15,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. N., C. P. R.

##### Kennedy, F. S.

Location, Owen Sound, 1st ave. west.  
Self unloading vessels only.  
1 Whirlie.  
Capacity per 10 hours 250 tons.  
Storage capacity 3,000 tons.  
Depth of water at dock 18 feet.  
Can handle any size ship.  
R. R. Conn.: G. T., C. P. R., C. N.

##### Mills & McKerroll (Dominion Gov't Dock)

Location, east side of Owen Sound Harbor.  
Self unloading vessels only.  
Depth of water at dock 20 feet.  
Storage capacity 6,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. P., C. N.

##### McLauchlan Supply Co., Ltd., J. K.

Self unloading vessels only.  
Depth of water at dock 16 feet.  
Maximum length of ship 400 feet.

##### Owen Sound Municipal Dock, Public Utilities Comm.

Location, east side of river, North of 17th St.  
Self unloading vessels only.  
Depth of water at dock 19 feet.  
Storage capacity 5,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. P. R., C. N.

#### PARRY SOUND, ONT.

##### Beatty Co., Ltd., William

Self unloading vessels only.  
Depth of water at dock 20 feet.  
Storage capacity 5,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. P. R., C. N. R.

#### PENETANG, ONT.

##### Breithaupt Leather Co., Ltd.

The Location, Tannery Point, half way down Penetang Bay.  
Self unloading vessels only.  
Storage Capacity 3,000 tons.  
Depth of water at dock 25 ft.  
Can handle any size ship.  
R. R. Conn.: CNR.

#### PETOSKEY, MICH.

##### Petoskey Portland Cement Co.

Location, three miles west of Petoskey.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage capacity 45,000 tons.  
Can handle any size ship.  
R. R. Conn.: P. M.

#### PICTON, ONT.

##### Colliver & Huff.

Location, south side of Harbor.  
Self unloading vessels only.  
Depth of water at dock 14 feet.  
Storage capacity 5,000 tons.  
Equipped for vessel fueling.

##### Hepburn Brothers.

Location, head of Picton Harbor.  
Self unloading vessels only.  
Depth of water at dock 14 feet.  
Storage capacity 15,000 tons.

#### POINT EDWARD, ONT.

##### Century Coal Co., Ltd.

Location, on St. Clair River at Pt. Edward.  
Self unloading vessels only.

Depth of water at dock 20 feet.  
Storage capacity 5,000 tons.  
R. R. Conn.: C. N. R.

##### Empire-Hanna Coal Co., Ltd.

Location, on St. Clair River at Pt. Edward.  
Self unloading vessels only.  
Depth of water at dock 21 feet.  
Storage capacity 60,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. N.

#### PORT ALFRED, QUE.

##### Saguenay Terminals, Ltd.

Location Ha Ha Bay, Saguenay River.  
Office: Arvida, Que., Aluminum Co. of Canada, Ltd.  
4 locomotive cranes.  
Capacity per 10 hours 2,000 tons.  
Storage capacity 200,000 tons.  
Depth of water at dock 30 feet.  
Length of dock 1,000 feet.

#### PORT BURWELL, ONT.

##### Valley Camp Coal Co. of Canada, Ltd.

Location, east side Otter River.  
Self unloading vessels only.  
Depth of water at dock 20 feet.  
Storage capacity 175,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. P. R.

#### PORT COLBORNE, ONT.

##### Canada Cement Co., Ltd.

Location of dock on Welland Canal  
Self unloading vessels only.  
Depth of water at dock 15 feet.  
Storage capacity 15,000 tons.  
Can handle any size ship.

##### Century Coal Co., Ltd.

Location, east side of Welland Canal at Ramley's Bend.  
Equipped for vessel fueling.  
Self unloading vessels only.  
Depth of water at dock 24 feet.  
Storage capacity 100,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. N.

##### Empire-Hanna Coal Co., Ltd.

(Use facilities of Century Coal Dock)

##### Lannon Coal Co., Ltd. (Rochester & Pittsburgh Canada, Ltd.)

Location, east pier immediately south of bridge.

Self unloading vessels only.  
Depth of water at dock 30 feet.  
Storage capacity 15,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. N., C. P., T. H. & B.  
Equipped for vessel fueling.

##### Valley Camp Coal Co. of Canada, Ltd.

Location, west pier in harbor.  
Self unloading vessels only.  
Storage capacity 100,000 tons.  
Depth of water at dock 25 feet.  
Can handle any size ship.  
R. R. Conn.: C. N., T. H. & B.  
Equipped for vessel fueling.

#### PORT DALHOUSIE, ONT.

##### Valley Camp Coal Co. of Canada, Ltd.

Location, E. Piers.  
Self unloading vessels only.  
Any size boat.  
Storage capacity 30,000 tons.  
Draft 19 feet. Length of dock 500 feet.

#### PORT HOPE, ONT.

##### Canada Coal Co., Ltd.

Self unloading vessels only.  
Storage Capacity 10,000 tons.  
Depth of water at dock 16 ft.  
Canal size vessels.  
R. R. Conn.: CN.

##### Pittsburgh Coal Co., Ltd.

Location in Harbor at Pt. Hope.  
Self unloading vessels only.  
Depth of water at dock 16 feet.  
Storage capacity 8,000 tons.  
Maximum length of ship-canal size.  
R. R. Conn.: C. N.

##### Port Hope Sanitary Mfg. Co., Ltd.

Location in Harbour center pier.  
Self unloading vessels only.  
Depth of water at dock 13 to 15 feet.  
Storage capacity 8,000 tons.  
Maximum length of ship-canal size.  
R. R. Conn.: C. N., C. P.

##### Rochester & Pittsburgh Coal Co., Ltd.

Location in Harbor.  
Self unloading vessels only.  
Depth of water at dock 15 feet.  
Storage capacity 5,000 tons.  
Maximum length of ship-canal size.  
R. R. Conn.: C. N.

##### Smith & Mitchell.

Location, in harbour at Pt. Hope.  
Self unloading vessels only.



Depth of water at dock 15 feet.  
Storage capacity 20,000 tons.  
Maximum length of ship-canal size.  
R. R. Conn.: C. N.

### PORT HURON, MICH.

**Detroit Edison Co. (Marysville)**  
Location, On St. Clair River at Marysville.  
Self unloading vessels only.  
Any size boat.  
Storage capacity 340,000 tons.  
Draft 20 feet. Length of dock 2,000 feet.

**Dunn Sulphite Paper Co.**  
Location, entrance to St. Clair River.  
Self unloading vessels only.  
Depth of water at dock 19 feet.  
Storage capacity 7,000 tons.  
Can handle any size ship.  
R. R. Conn.: G. T.

**Huron Fuel Company.**  
Location, foot of Water St.  
Self unloading vessels only.  
Depth of water at dock 14 feet.  
Storage capacity 10,000 tons.  
R. R. Conn.: P. M., G. T.

**Morton Salt Co.**  
Location, south of Edison Co. on St. Clair River.  
Self unloading vessels only.  
Depth of water at dock 21 feet.  
Storage capacity 75,000 tons on dock.  
Can handle any size ship.  
R. R. Conn.: Pt. Huron and Detroit.

**Municipal Dock-Pt. Huron Waterworks.**  
Location, St. Clair River just below City Park.  
Self unloading vessels only.  
Depth of water at dock 20 feet.  
Storage capacity 4,500 tons.  
Can handle any size ship.  
R. R. Conn.: P. M.

**Peerless Portland Cement Co.**  
Location, just below bridge on St. Clair River.  
Self unloading vessels only.  
Depth of water at dock 20 feet.  
Storage capacity 30,000 tons.  
Can handle any size ship.  
R. R. Conn.: M. C.

**Port Huron Coal & Dock Co. (Fuel Dock)**  
Location, St. Clair River lower end of Pt. Huron.

Self unloading vessels only.  
Depth of water at dock 22 feet.  
Storage capacity 25,000 tons.  
Can handle any size ship.

**Port Huron Sulphite & Paper Co.**  
Location, Black River.  
Use self unloading vessels only.  
Depth of water at dock 18 feet.  
3 Whirlies with 48 foot boom.  
1 ton clam shell used.  
Capacity per 10 hours 500 cords.  
Maximum length of ship 300 feet, 50' beam.  
Storage capacity 7,500 tons.  
R. R. Conn.: G. T.

**State Bridge Commission**  
Location 310 Quay St., north side of Black River.  
Office 1410 Elmwood St.  
Use self-unloading boats only.  
Storage capacity 2,200 tons.  
Depth of water at dock 20 feet.  
Can handle boat with 500 foot length.  
Length of dock 600 feet.

**St. Clair Coal & Dock Co.-Dock No. 1.**  
Location, entrance of Black River.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage capacity 35,000 tons.  
Can handle any size ship.  
R. R. Conn.: P. M.

**St. Clair Coal & Dock Co.-Dock No. 2**  
Location, St. Clair River foot of Clyde St.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage capacity 20,000 tons.  
Can handle any size ship.  
R. R. Conn.: P. M.

**Spencer Coal Company.**  
Location north side of Black River.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage capacity 8,000 tons.  
Maximum length of ship 450 feet.

**Webb Coal Company.**  
Location, St. Clair River south of P. M. ferry dock.  
Self unloading vessels only.  
Depth of water at dock 17 feet.  
Storage capacity 10,000 tons.  
Can handle any size ship.  
R. R. Conn.: G. T.

### PORT INLAND, MICH.

**Inland Lime & Stone Co.**  
Equipped with a shuttle conveyor.  
Capacity per hour 3,000 tons.  
Method of storage, stock piles over tunnels and by belt conveyors to ships.  
Storage capacity 150,000 tons.  
Depth of water at dock 22 feet.  
Maximum size ship 630' x 70'.  
R. R. Conn.: Inland Lime & Stone to Soa.

### PORT MCNICOL, ONT.

**Canadian Pacific Rwy. Co.**  
Location north west side of slip.  
Self unloading vessels only.  
Depth of water at dock 22 feet.  
Storage capacity 20,000 tons.  
Can handle any size ship.

R. R. Conn.: C. P. R.  
**PORT MAITLAND, ONT.**  
**Canada Coal Co., Ltd.**

Location east side of Grand River.  
Self unloading vessels only.  
Depth of water at dock 24 feet.  
Storage capacity 300,000 tons.  
Maximum length of ship 550' any beam.  
R. R. Conn.: T. H. & B.

The following companies use facilities of  
Canada Coal Dock, Empire-Hanna Coal Co., Ltd.; Pittsburgh Coal Co., Ltd.; New York Central Rwy.; Gillies Guy.

### PORT STANLEY, ONT.

**Century Coal Co., Ltd.**  
Self unloading vessels only.  
Depth of water at dock 22 feet.  
Storage capacity 70,000 tons.  
R. R. Conn.: L. & P. S., T. H. B., C. N. C. P. R.  
Fueling facilities.

**Empire-Hanna Coal Co., Ltd. and Pittsburgh Coal Co., Ltd.**  
(Use facilities of Century Coal Co.)

**Imperial Fuels, Ltd.**  
Location, Pt. Stanley east side of ship canal.  
Depth of water at dock 22 feet.  
Storage capacity 100,000 tons.  
Can handle any size ship.  
Self unloading vessels only.

### PORT WASHINGTON, WIS.

**Ubbink Fuel & Dock Co.**  
Location, extreme west end of harbor.  
Self unloading vessels only.

Depth of water at dock 20 feet.  
Storage capacity 4,000 tons.  
Can handle any size ship, but self unloading equipment cannot be located too far at stern.  
R. R. Conn.: C. & N. W.

**Wisconsin Electric Power Co.**  
Location, south side harbor entrance at Lake Front.  
1 Mead-Morrison Bridge.  
Capacity per 10 hours 5,000 tons.  
Depth of water at dock 18 feet, 6 inches.  
Storage capacity 480,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. & N. W.

### PORT WELLER, ONT.

**Empire-Hanna Coal Co., Ltd.**  
Location, Starboard side of harbor entrance.  
Self unloading vessels only.  
Depth of water at dock 22 feet.  
Storage capacity 70,000 tons.  
Can handle any size ship.

**Pittsburgh Coal Co., Ltd.**  
Location, Welland Canal.  
Self unloading vessels only.  
Depth of water at dock 25 feet.  
Storage capacity 15,000 tons.  
Can handle any size ship.

### PRESCOTT, ONT.

**Bruce Coal Co., Ltd.**  
Location, St. Lawrence River.  
Self unloading vessels only.  
Depth of water at dock 17 feet.  
Storage capacity 100,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. P. R.

**Canadian Pacific Rwy. Co., Ltd.**  
Location St. Lawrence River at Prescott.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage capacity 200,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. P. R.

The following companies use facilities of C. P. Rwy. dock, Rochester & Pittsburgh Coal Co., Bonn-Strachan Coal Co., Valley Camp Coal Co., F. P. Weaver Coal Co.

**Century Coal Co., Ltd.**  
Self unloading vessels only.  
Depth of water at dock 25 feet.



Storage capacity 9,000 tons.  
Fueling facilities.

### Prescott & Ogdensburg Ferry Co., Ltd.

Location, foot of West St.  
Self unloading vessels only.  
Depth of water 15 feet.  
Storage capacity 3,000 tons.  
R. R. Conn.: C. P. R.

### QUEBEC, QUE.

### Anglo Canadian Pulp & Paper Co.

Location, north shore, St. Charles estuary.  
Private dock.  
5 ton clam shell used.  
Capacity per 10 hours 2,000 tons.  
Storage capacity 80,000 tons.  
Depth of water at dock 24 feet.

### Canadian Import Co., Ltd.-Louise Dock.

Location, inter Louise Basin.  
3 Mead-Morrison and 3 Brown Hoists.  
Size of clam shell used 1½ ton.  
Capacity per ten hours 7,500 tons.  
Storage capacity 150,000 tons.  
Depth of water at dock 25 feet.  
Maximum length of ship 425', beam 58'.  
R. R. Conn.: C. P. R., C. N., Q. & L. St. John.

### Canadian Import Co., Ltd.

Location, on St. Charles River.  
Storage capacity 60,000 tons.  
Depth of water at dock 30 feet.  
R. R. Conn.: C. P. R., C. N., Q. & L. St. John.

The following companies use facilities of Canadian Import, British Coal Corp., Mad-den & Son.

### Dominion Coal Co., Ltd.

Location, Louise Basin.  
2 Steeple Towers.  
2 ton clam shells used.  
Capacity of steel packets 5,000 tons.  
Capacity per 10 hours, 5,000 tons.  
Storage capacity 25,000 tons.  
Depth of water at dock 28 feet.  
Maximum length of ship, any size.  
R. R. Conn.: C. P. R., C. N., Q. & S. St. John.

### Lachance & Frere

Location St. Charles River.  
Use self-unloading boats only.  
Storage capacity 6,000 tons.

Depth of water at dock 9 feet.  
Maximum length of boat 120 feet with 20 foot beam.  
Length of dock 220 feet.  
One Browning locomotive crane with 1-ton clam shell.  
R. R. Conn.: C. P. R., C. N. R.

### Lane & Robitaille, Ltd.

Location, Allen's Wharf.  
Self unloading vessels only.  
Depth of water at dock 30 feet.  
Storage capacity 10,000 tons.  
Fueling facilities.

### Nova Scotia Steel & Coal Co., Ltd.

Location, Louise Basin.  
2 Mead Morrison.  
Size of clam shell used 1½ tons.  
Capacity per 10 hours 3,000 tons.  
Storage capacity 50,000 tons.  
R. R. Conn.: C. P. R., C. N., Q. & L.

### RACINE, WIS.

### Baumann Coal Co.

Location, second dock on south side of River, west of Gas Co. Dock and east of bridge.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage capacity 12,000 tons.  
Maximum length of ship 550', any size beam.  
R. R. Conn.: C. M., St. P. & P.

### Carroll Coal Co.

Use self unloading vessels only.  
Depth of water at dock 16 feet, 6 inches.  
Storage capacity 10,000 tons.  
Maximum length of ship 350 feet, any beam.  
R. R. Conn.: St. Paul.

### Pugh Coal Co., W. H.

Location, north side of river at entrance.  
1 Link-Belt Bridge.  
6 ton clam shell used-5 ton clean-up bucket used.  
Capacity per 10 hours 4,500 tons.  
Storage capacity 85,000 tons.  
Depth of water at docks No. 1-2-3 18 feet.  
Can handle any size ship.  
R. R. Conn.: C. M. & St. P.

### United Fuel & Supply Co.

Location between 1st and 2nd bridge.  
Use self unloading ship only.  
Storage capacity 15,000 tons.

Depth of water at dock 16 to 20 feet.  
Maximum length of ship 260 feet.  
R. R. Conn.: C. & N. W.  
Fueling facilities.

### Wisconsin Gas & Electric Co.

Location south of river entrance, first dock.  
1 Electric Power Bridge.  
Capacity per 10 hours 6,000 tons.  
Depth of water at dock 18 feet  
Storage capacity 100,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. M. St. P. & P., C. & N. W.

### ROCHESTER, N. Y.

### Charlotte Docks Co.

Location Genesee River, 3 miles from Lake Ontario.  
Load all types of boats.  
Fueling facilities.  
Link belt, 8 pockets with chutes attached.  
Capacity per 10 hours 1,000 tons.  
Depth of water at dock 22 feet.

### Rochester Gas & Electric Corp.

Location, west bank of Genesee River at river mouth.

Self unloading vessels only.  
Depth of water at dock 22 feet.  
Storage capacity 75,000 tons.  
Can handle any size ship.  
R. R. Conn.: N. Y. C.

### ROCKPORT, MICH.

### Kelley Island Lime & Transport Co.

Location, north end of Lake Huron.  
Self unloading vessels only for coal.  
Stone loading dock.  
Can handle any size ship.  
Depth of water at dock 20 feet, 6 inches.

### ROND EAU BAY (ERIEAU) ONT.

### Lake Erie Nav. Co., Walkerville, Ont.

Lake Erie Coal Co., Ltd.  
1 Mead-Morrison.  
1 Wellman bridge.  
5-ton clam shells used.  
Capacity 10 hours 5,000 tons.  
Storage capacity 200,000 tons.  
Depth of water at dock 20 feet, channel 22 feet.  
Can handle boats of 400 foot length.  
R. R. Conn.: P. M., M. C., G. T.,

C. P. R., C. N.  
Length of dock 1800 feet, slip 1,875 feet, width 100 feet.  
This dock also used by Pittsburgh Coal Co.

### SAGINAW, MICH.

### Chevrolet Motor Co.

Location, south side of river, 16 miles from river mouth.  
2 Electric Ohio Locomotive cranes-60' boom.  
Size of clam shell 2½ ton, also use 63-inch magnet.  
Capacity per 10 hours with magnet, 600 tons per crane.  
1 Steam Ohio Locomotive crane, boom 60'.

Size of clam shell used 2½ ton, also use 63 inch magnet.  
Capacity per 10 hours 500 tons.  
Storage capacity pig iron 70,000 tons.  
Maximum length of ship 450', beam 50'.  
Depth of water at dock 16 feet, 6 inches.  
Self unloading vessels only for coal.  
Storage capacity 25,000 tons coal.  
R. R. Conn.: M. C., connects to P. M., Grand Trunk.

### Consumers Power Co. (Saginaw River Coal Dock)

Location at Zilwaukee on Saginaw River.  
River.  
1 Industrial Brown Hoist.  
Capacity per 10 hours 5,000 tons.  
Depth of water at dock 18 feet.  
Storage capacity 300,000 tons.  
Maximum length of ship 550', beam 56'.  
R. R. Conn.: M. C. & G. T.

### Consumers Power Co (John C. Wedock Coal Dock)

Location on Saginaw River.  
Self unloading vessels only.  
Depth of water at dock 16 feet.  
Storage capacity 350,000 tons.  
Maximum length of ship 550 feet.

### Joyner Coal & Coke Co. (Huron Port. Cement Dock)

Location, 6th St. Bridge Saginaw River.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage capacity 13,000 tons.

### Remer Coal & Supply Co.

Location on Saginaw River south of Genesee Ave. Bridge.

Self unloading vessels only.  
Depth of water at dock 14 feet.  
Storage capacity 25,000 tons.  
Maximum length of ship-medium size.  
R. R. Conn.: M. C.

#### Saginaw Dock & Terminal Co.

Location just below 6th St. Bridge.  
3 cranes.

Capacity per 10 hours 1,500 tons.  
Storage capacity 100,000 tons.  
Depth of water at dock 19 feet.  
Maximum length of ship 450', beam 60'.  
R. R. Conn.: P. M., N. Y. C., G. T.

#### Saginaw Ice & Coal Co.

Location Saginaw River, North Cort St. Bridge.

Self unloading vessels only.  
Depth of water at dock 16 feet.  
Storage capacity 30,000 tons.  
Maximum length of ship 650 feet.  
R. R. Conn.: N. Y. C.

#### ST. CLAIR, MICH.

##### Diamond Crystal Salt Co.

Location at St. Clair, American side.  
Use self unloading ships only.  
Depth of water at dock 19 feet.  
Storage capacity 50,000 tons.  
Can handle any size ship.

##### Kemp Coal Co., Wm. R.

Location mouth of Pine River.  
Self unloading vessels only.  
Depth of water at dock 16 feet.  
Storage capacity 6,000 tons.  
Can handle any size ship.

##### Schlinkert Fuel & Builders' Supply Co.

Location, below Diamond Crystal Salt Dock.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage capacity 7,000 tons Bituminous 1,000 tons Anthracite.  
Maximum length of ship 500 feet.

#### ST. IGNACE, MICH.

##### St. Ignace Fuel Co.

Location, north side of E. Moran Bay.  
Self unloading vessels only.  
Depth of water at dock 16 feet.  
Storage capacity 30,000 tons.  
Maximum length of ship 450 ft., any beam.  
R. R. Conn.: D. S. S. & A.

#### State Highway Dept.

Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage capacity 4,000 tons.  
Can handle any size ship.

#### ST. JOSEPH, MICH.

##### Ireland & Lester

Location Wayne St. dock, between Highway Bridge and viaduct.  
Self unloading boats only.  
Storage capacity 30,000 tons.  
Depth of water at dock 18 to 20 feet.  
Can handle any size ship.  
Length of dock 1,100 feet, slip 325 feet.  
Width 200 feet.

##### Terminal Materials Co.

Location south side of entrance.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage capacity 30,000 tons coal, 20,000 tons stone.  
Can handle any size ship.  
R. R. Conn.: P. M., N. Y. C.

##### Webb Coal Co.

Location St. Joseph River, north side.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage capacity 20,000 tons.  
Can handle any size ship.

#### SANDUSKY, OHIO

##### Kelley Island Lime & Transport Co., The (B. & O. Dock)

1 McMyler crane, 50' boom.  
Capacity per 10 hours 2,000 tons for unloading.  
Loading capacity per 10 hours 2,000 tons.  
Reach of booms from end of dock 30 feet.  
Depth of water at dock 15 feet.  
Maximum length of ship 270', beam 46'.  
R. R. Conn.: B&O.

##### Misch Coal Company.

Location, in dock channel foot of Lawrence St.  
Small boat fueling.

##### Wagner Quarries Co.

Location, east end of Sandusky Bay.  
Unloading equipment 2-75 foot conveyors.  
Capacity per 10 hours 1,000 tons.  
Storage capacity 400,000 tons.  
Depth of water at dock 18 feet.  
Maximum length of ship 575', any beam.  
R. R. Conn.: B&O.

#### SARNIA, ONT.

##### Century Coal Co.

Location at Sarnia on St. Clair River.  
Use self unloading vessels only.  
Depth of water at dock 19 feet.  
Storage capacity 6,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. N.

##### Clark Coal Co., Ltd.

Location foot Lochiel St., St. Clair River.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage capacity 2,000 tons bituminous, 1,000 tons anthracite.  
Can handle any size ship.  
R. R. Conn.: C. N.

##### Dalton Fuels, Ltd.

Location, south of Dominion Salt Co.  
Self unloading vessels only.  
Storage capacity 25,000 tons.  
Depth of water at dock 18 feet.  
Can handle any size ship.  
R. R. Conn.: C. N.

##### Dominion Salt Co., Ltd.

Location St. Clair River, ½ mile above custom house.  
Self unloading vessels only.  
Depth of water at dock 20 feet.  
Storage capacity 12,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. N.

##### Imperial Oil, Ltd.

Location on St. Clair River.  
Self unloading vessels only.  
Depth of water at dock 23 feet.  
Storage capacity 100,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. N., P. M.

##### Mueller-Limited.

Location on St. Clair River.  
Self unloading vessels only.  
Depth of water at dock 14 to 25 feet.  
Storage capacity 10,000 tons.  
Can handle any size ship.  
R. R. Conn.: P. M.  
Empire Hanna Coal Co., Ltd.  
(Use facilities of above)

##### Polymer Corporation

Location, E. Shore St. Clair River, below Imperial Oil Co.  
Self unloading vessels only.  
Any size boat.

Unload into hopper, dock to shore belt conveyor revolving boom conveyor, caterpillar tractor and drag scraper coal moving equipment.  
Unloading capacity 1,200 tons per hour.  
Storage capacity 500,000 tons.  
Draft 22 feet. Length of dock 600 feet.

#### SAULT STE. MARIE, MICH.

##### Bye Fuel & Ice Co.

Location adjacent to and east of Pittsburgh Sup. Co.  
Self unloading vessels only.  
Depth of water at dock 20 feet.  
Storage capacity 10,000 tons.  
Can handle any size ship.

##### Consumers Coal Co.

Location, directly east Union Carbide Co.  
Self unloading vessels only.  
Depth of water at dock 22 feet.  
Storage capacity 50,000 tons.  
Can handle any size ship.  
R. R. Conn.: Soo Line, D. S. S. & A.

##### Kemp Brothers Coal Co.

Location just below Government Dock.  
2 McMyler Whirlies with 90' booms.  
2 3-ton clam shells used.  
Capacity per 10 hours 2 mach. 1,800 tons.  
Storage capacity 25,000 tons bituminous, 10,000 tons anthracite.  
Self unloading vessels also.  
Depth of water at dock 22 feet.  
Can handle any size ship.  
Can fuel any size ship.

##### North Western-Hanna Fuel Co. (Algonquin Dock)

Location above the Locks on port side.  
2 McMyler Whirlies with 75' boom.  
Size of clam shell used, 2 ton.  
1 McMyler with 48' boom-1½ ton bucket.  
Depth of water at dock 19 feet.  
Maximum length of ship 500 ft., beam 50'.  
Storage capacity 50,000 tons.  
R. R. Conn.: D. S. S. & A., Soo, C. P. R.

##### Sault Ste. Marie Gas, Coal Dock.

Location, St. Mary's River ½ mile east of Carbide dock.  
Self unloading vessels only.  
Depth of water at dock 15 feet.  
Storage capacity 2,000 tons.  
Can handle any size ship.

##### Union Carbide Co.

Location, just below Locks.  
1 Mead-Morrison.

1½ ton clam shell used.  
Capacity per 10 hours 900 tons.  
Storage capacity 50,000 tons.  
Depth of water at dock 21 feet.  
Maximum length of ship 500', beam 50'.  
R. R. Conn.: Soo, D. S. S. & A., C. P., A. C. R.

#### SAULT STE. MARIE, ONT.

##### Algoma Central & H. B. Railway Dock.

Location, below locks.  
1 unloading bridge.  
Use 5 ton clam shell.  
Capacity per 10 hours 3,000 tons.  
Depth of water at dock 20 feet.  
Storage capacity 150,000 tons.  
Can handle any size ship.  
R. R. Conn.: A. C. & H. B., C. P. R.

##### Algoma Steel Corp., Ltd. (Coal Dock)

Location, west of Canadian ship canal above Can. Locks.  
3 Heyl & Patterson.  
3 ton clam shell used.  
Capacity per 10 hours 6,000 tons.  
Depth of water at dock 22 feet.  
Storage capacity 1,000,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. P. R., A. C. & H. B.

##### Century Coal Co., Ltd. (C. S. S. Lines).

Location, second dock below ship canal.  
Self unloading vessels only.  
Storage capacity 30,000 tons.  
Depth of water at dock 18 feet.  
Maximum length of ship 450 feet.  
R. R. Conn.: A. C. & H. B., C. P. R.  
Fueling facilities.

##### District Services, Ltd.

Location, west of Government dock.  
Self unloading vessels for bituminous.  
1 McMyler.  
Capacity per 10 hours 1,000 tons.  
Storage capacity 20,000 tons bituminous, 10,000 tons anthracite.  
Depth of water at dock 19 feet.  
Maximum length of ship 450', beam unlimited, for anthracite, any length for self unloaders.  
R. R. Conn.: C. P., A. C.  
Fueling facilities.

##### Government Dock (West Dock).

1 McMyler, 1½ ton bucket used.  
Capacity per 10 hours, 1,000 tons.  
Self unloading vessels.

Storage capacity 15,000 tons.  
Depth of water at dock 18 feet.  
Maximum length of ship 300 feet.

##### Lyons Fuel, Hardware & Sup., Ltd. (Century Coal Dock)

Self unloading vessels only.  
Depth of water at dock 19 feet.  
Storage capacity 15,000 tons.  
Fueling facilities.

##### Lyons Fuel, Hardware & Sup., Ltd. (Purity Ice Dock).

Location foot of Spring St.  
Self unloading vessels only.  
Depth of water at dock 20 feet.  
Storage capacity 10,000 tons.  
Can handle any size ship.  
R. R. Conn.: A. C. & H. B.

##### Mutual Coal & Dock Co.

Location, between C. P. Rwy. and ferry dock.  
Self unloading vessels only.  
Depth of water at dock 19 feet.  
Storage capacity 9,000 tons.  
Can handle any size ship.  
Fueling facilities for tugs.

#### SAWYER, W.S.

##### Sawyer Fuel & Supply Co.

Bellin Bldg., Green Bay, Wis.  
Depend on self-unloading boats.  
Storage capacity 100,000 tons.  
Depth of water at dock 20 feet.  
Length of dock 1,100 feet.  
R. R. Conn.: A. & W.

#### SHEBOYGAN, WIS.

##### Reiss Coal Co., C. (Dock No. 1).

Location at 8th St.  
1 Mead-Morrison Bridge.  
Capacity per 10 hours 6,500 tons.  
Depth of water at dock 20 feet.  
Storage capacity 300,000 tons bituminous, 50,000 tons anthracite.  
Can handle any size ship.  
R. R. Conn.: C. & N. W.

##### Sheboygan Coal Co.

Dock No. 1 first dock in harbor on north side of river.  
Dock No. 2 first dock facing east entering harbor.  
Use self-unloading boats only.  
Storage capacity 30,000 tons.  
Depth of water at dock 18 feet.  
Maximum length of boat 600 feet.

R. R. Conn.: Milwaukee Road via Wis. P. & L. Co.

#### SISTER BAY, WIS.

##### Roeser Lumber Co.

Location west side of harbor.  
Self unloading vessels only.  
Storage capacity 3,000 tons.  
Depth of water at dock 14 feet.  
Can handle any size ship.

#### STURGEON BAY WIS.

##### Sturgeon Bay Company, Sturgeon Bay Quarry Dock.

Stone loading dock only.  
Location 4½ miles north of town.  
Capacity 3,000 tons per hour.  
Depth of water at dock 22 ft.  
Can handle any size vessel.

##### Sturgeon Bay Utilities (Pine St. Dock)

Location directly east of highway bridge on east side of city.  
Self unloading vessels only.  
Storage capacity 12,000 tons.  
Depth of water at dock 16 feet.  
Maximum length of ship 450 feet, any beam.  
R. R. Conn.: G. D. & W.

#### SUPERIOR, WIS.

##### Berwind Fuel Co. (Dock No. 1).

Location, St. Louis Bay, foot of Missouri Ave.  
3 Link Belt Co. rigs, 6 ton clam shells used.  
Capacity per 10 hours 10,000 tons.  
Storage capacity 700,000 tons.  
Depth of water at dock 20 feet.  
Can handle any size ship.  
R. R. Conn.: G. L. & L., S. T. & T. Ry

##### Carnegie Dock & Fuel Co. (Dock No. 1)

Location, St. Louis Bay.  
2 Heyl & Patterson, 5 ton clam shells used.  
Capacity per 10 hours 6,000 tons.  
Storage capacity 500,000 tons.  
Depth of water at dock 21 feet.  
Can handle any size ship.  
R. R. Conn.: G. N., Omaha, N. P., Soo, D. S. S. & A.

##### Great Lakes Coal & Dock Co.

Location, St. Louis Bay.  
2 Mead-Morrison, 10 ton clam shells used.  
Capacity per 10 hours 7,500 tons.

Depth of water 22 feet.  
Can handle any size ship.  
Storage capacity 800,000 tons.  
R. R. Conn.: G. N., Omaha, N. P., Soo, D. S. S. & A.

##### Cutler-Laliberte-McDougall Corp.—Lime Dock No. 3

Location foot of Winter Street.  
1 Heyl & Patterson movable bridge.  
Size of clam shell 12 tons.  
Clean-up 8 tons.  
Capacity per 10 hours 4,500 tons.  
Storage capacity 400,000 tons.  
Depth of water at dock 25 feet.  
Can handle any size ship.  
Length of dock 1,000 feet.  
Slip 150 feet.  
R. R. Conn.: G. N., N. P., Omaha, Soo, D. S. S. & A., St. Paul, D. M. & I. R.

##### Mid-Continent Coal and Dock Co.

Location, Tower Bay slip.  
1 Link Belt Co. rigs, 6 ton clam shell used.  
Capacity per 10 hours, hard-coal 3,500 tons.  
Storage capacity 150,000 tons.  
Depth of water at dock 20 feet.  
Can handle any size ship.  
R. R. Conn.: G. N., Omaha, D. S. S. & A.

##### Northwestern-Hanna Fuel Co. (Dock No. 2)

Location St. Louis Bay, first dock west of N. P. Bridge.  
2 Heyl & Patterson, 6 ton clam shells used.  
Capacity per 10 hours 10,000 tons.  
Storage capacity 650,000 tons.  
Depth of water at dock 21 feet.  
Can handle any size ship.  
R. R. Conn.: G. N., N. P., Omaha, Soo, D. S. S. & A., St. Paul, D. M. & N., D. I. R., C. N.

##### Northwestern-Hanna Fuel Co. (Old Hanna Dock)

Location Superior Bay front.  
3 Mead-Morrison Towers, 2 ton clam shells used.  
Capacity per 10 hours 6,900 tons.  
2 Mead-Morrison Towers for reclaiming 2 ton buckets used.  
Capacity per 10 hours 1,000 tons each.  
Storage capacity 300,000 tons bituminous, 75,000 tons anthracite.  
Depth of water at dock 20 feet.



Can handle any size ship.  
R. R. Conn.: C. N., Omaha, N. P., Soo.  
D. S. S. & A., St. Paul, C. N.

**Old Ben Corp.**  
(Use facilities of Great Lakes Coal & Dock).

**Philadelphia & Reading Coal & Iron Co.**  
Location, first dock east of Interstate Bridge, Superior front channel.  
2 Heyl & Patterson.  
Size of clam shell used 5 ton.  
Capacity per 10 hours 2,500 tons.  
Storage capacity 400,000 tons.  
Depth of water at dock 20 feet.  
Can handle any size ship.  
R. R. Conn.: G. N., N. P., Omaha, Soo.  
D. S. S. & A., St. Paul, D. M. & N.,  
D. I. R., C. N.

**North Western-Hanna Fuel Co. (Dock No. 1)**

Location Allouez Bay.  
2 Modern Brown Hoists. 14 and 8½ ton clam shells used.  
Capacity per 10 hours 5,000 tons.  
Storage capacity 200,000 tons anthracite, 650,000 tons Bituminous.  
Depth of water at dock 21 feet.  
Can handle any size ship.  
R. R. Conn.: G. N., N. P., Omaha, Soo,  
D. S. S. & A., St. Paul, D. M. & N.,  
D. I. R., C. N.

**Reiss Coal Co.**

Location, last dock on west on south side of St. Louis Bay.  
2 Heyl & Patterson Bridges, 8 ton clam shell used.  
Capacity per 10 hours 9,000 tons.  
Storage capacity 800,000 tons bituminous, 60,000 tons anthracite.  
Depth of water at dock 21 feet.  
Can handle any size ship.  
R. R. Conn.: C. M. & St. P., C. St. P.,  
M. & O., G. N., N. P., Soo, D. S. S. & A., L. S. T. & T.

**Superior Terminal & Dock Co.**

Located at Ogdensburg Pier, foot of 22d St.  
Rigs, 2 Industrials and 2 Brownings.  
Length of booms 60 feet.  
Capacity 3 15-ton and 1 20-ton.  
Loading and unloading capacity of each machine 50 tons.  
Number of tracks under cranes 6.

Size of magnets used 55 inch.  
Length of dock 1,100 feet.  
Depth of water at dock 20 feet.  
Can handle any size boat.  
R. R. Conn.: C. M. St. P. & P., G. N.,  
C. St. P. M. & O., Soo.

**Youghiogheny and Ohio Coal Co.**

Location, On Superior Bay, 5600 feet Southeast of Interstate Bridge.  
Unloading equipment: 3 Mead-Morrison unloading towers, 2 ton clams.  
Any size boat.  
Unloading capacity 6,000 cars 10 hours.  
Storage capacity 5,000,000 tons.  
Draft 21 feet. Length of dock 800 feet.

#### SUTTON'S BAY, MICH.

**Leelanau Coal Co.**

Location in Sutton's Bay.  
Self unloading vessels only.  
Depth of water at dock 14 feet.  
Can handle any size ship.

**Suttons Bay Coal Dock**

Location west arm Grand Traverse Bay.  
Use self-unloading boats only.  
Storage capacity 6,000 tons.  
Depth of water at dock 16 feet.  
Can handle any boat up to 375 foot length.  
Length of dock 150 feet

#### SOUTHAMPTON, ONT.

**McVittie, Robt.**

Location Saugeen River.  
Self unloading vessels only.  
Depth of water at dock 14 feet.  
Maximum length of ship 350 feet.  
R. R. Conn.: C. N.

#### SOUTH CHICAGO, ILL.

**Central Fuel Corp'n.**

(Use facilities of F. & F. Crane Service).  
**Interlake Iron Co.**  
Location west side of river at 108th St.  
2 Stearns and 1 Electric Bridge.  
Capacity per 10 hours 3,600 tons.  
Depth of water at dock 21 feet.  
Storage capacity 400,000 tons.  
Can handle any size ship.

**F. & F. Crane Service (Central Dock).**

Location 102nd St. west side of Calumet River, slip No. 2.  
2 Crawler Cranes.  
3 Lin't Belt Locomotive cranes.  
Capacity per 10 hours 5,000 tons.

Storage capacity 100,000 tons.  
Depth of water at dock 20 feet.  
Can handle any size ship.  
R. R. Conn.: Belt Rwy.

**Illinois Carnegie Steel Co. (Rail Loading Dock)**

South slip dock.  
Locomotive cranes used.  
Use any number machines necessary.  
Capacity 2,400 tons in 48 hours.  
Depth of water at dock 20 feet.  
Can load two medium size vessels at once.

**Illinois Carnegie Steel Co. (Rail Loading Dock) (Illinois Steel Co.)**

Location North Slip.  
Locomotive cranes used.  
Use any number machines necessary.  
Capacity 2,400 tons in 48 hours.  
Depth of water at dock 25 feet.  
Can load two medium size vessels at once.

**International Steamship Terminals, Inc.**

Location Calumet River at 95th St.  
1 Mead-Morrison bridge rope trolley.  
Capacity per 10 hours 3,000 tons.  
Storage capacity 350,000 tons.  
Depth of water at dock 20 feet.  
Can handle any size ship.  
R. R. Conn.: Chicago Short Line.  
Fueling facilities for tugs and fuel lighter

**Material Service Corp.**

Location west of 92nd bridge.  
Use self-unloading boats.  
5 hoppers with capacity of 600 tons.  
Storage capacity 50,000 tons.  
Length of dock 500 feet.  
Depth of water at dock 19 feet 6 inches.  
Can handle any size vessel.  
R. R. Conn.: Chicago Belt Line.

**Material Service Corp. (Yard No. 10).**

Location on Calumet River, 92nd St. Bridge.  
1 Brown Hoist with 55' boom.  
Capacity per hour 100 tons.  
Boom reaches 30' from edge of dock.  
Storage capacity 60,000 tons.  
Depth of water at dock 19 feet.  
Can handle any size ship.  
R. R. Conn.: E. J. & E. Ry.

**Pittsburgh Coal Co. (Fuel Dock)**

Location 94th Street.  
Length of dock 300 feet.  
Depth of water at dock 20 feet.

2 McMyler with a capacity of 60 tons per hour.  
R. R. Conn.: C. R. I. & P.

**Rail to Water Transfer Corp.**

Location west side of Calumet River at 101st St.  
Office 11 South LaSalle St.  
Conveyor type 54 inch belt-loading directly out of cars—telescopic chute.  
Loading capacity per hour 1,500 tons.  
Can handle vessels up to 600 foot.  
Depth of water at dock 20 feet.  
R. R. Conn.: Belt Line.

**Republic Steel Corp.**

Location Calumet River at 114th St.  
2 Hulett's.  
Unloading capacity per 10 hours 8,000 tons.  
Storage Capacity 250,000 tons, coal, 450,000 tons ore, and 85,000 tons stone.  
Depth of water at dock 24 ft.  
Can handle any size ship.  
R. R. Conn.: All roads entering Chicago

**Terminals & Transportation Co. of Illinois.**

Location Calumet River at 103rd St.  
2 American steam cranes with 50 and 70' booms.  
2 2½-yard buckets.  
Storage capacity unlimited.  
Depth of water at dock 21 feet.  
Can handle any size ship.

R. R. Conn.: Belt Line.

**Youngstown Sheet & Tube Co. (Old Ironquios Dock).**

Location mouth of Calumet River.  
1 Mead-Morrison Bridge, 2 Industrial Brown Hoist Bridges, 1 Hoover & Mason.  
Capacity per 10 hours 10,000 tons.  
Depth of water at dock 24 feet.  
Storage capacity 1,250,000 tons.  
Can handle any size ship.  
R. R. Conn.: Chicago Short Line.

**Wisconsin Steel Co.**

Location, 2701 E. 106 St.  
1 Bridge.  
Capacity per 10 hours 4,500 tons.  
Storage capacity 150,000 tons.  
Depth of water at dock 22 feet.  
Can handle any size ship.  
R. R. Conn.: C. W. P.

#### SOUTHAMPTON, ONT.

**Robert McVittie**

Dock located on Saugeen River.  
Depend on self-unloading boats.



Equipped with one crane with a capacity of 1,000 tons per 10 hours.  
Storage capacity 5,000 tons.  
Depth of water at dock 14 feet.  
Maximum length of boat 350 feet.  
R. R. Conn.: C. N. R. R.

### SOUTH HAVEN, MICH.

**Funk & Son.**  
Location  $\frac{1}{4}$  mile east of Coast Guard Station.  
Self unloading vessels only.  
Storage capacity 15,000 tons.  
Depth of water at dock 21 feet 6 inches.  
Maximum length of ship 500 feet, any beam.  
R. R. Conn.: M. C., P. M.

**Jarko Corp.**  
Location on north side of Black River.  
Operate 3 warehouses on north side.  
Operate 2 warehouses on south side.

**Michigan Shore Lumber & Sup. Co.**  
Location north side of river, 1st dock.  
Self unloading vessels only.  
Depth of water at dock 20 feet.  
Storage capacity 30,000 tons.  
R. R. Conn.: Mich. Cent.

**Michigan Shore Lumber & Supply Co.**  
Location south side of Black River at Maple St.  
Length of dock 600 feet, slip 100 feet, width 60 feet.  
Depth of water at dock 18 feet, channel 21 feet.  
Use self-unloading boats only.  
Can handle any size boat.  
Storage capacity 3,000 tons.

**Pomeroy, Paul D.**  
Location north side of Black River at River St.  
Storage capacity 1,500 tons.  
Use self-unloading boats only.  
Depth of water at dock 18 feet, channel 21 feet.  
Can handle any size boat.  
Length of dock 250 feet.

**South Haven Terminal Co.**  
Location west end of river bridge.  
Self unloaders only.  
Capacity per 10 hours 800 tons.  
Storage capacity 30,000 tons.  
Depth of water at dock 16 feet.

Maximum length of ship 350', beam 50'.  
R. R. Conn.: M. C.

### STURGEON BAY, WIS.

**Bushman Dock & Terminal Company.**  
Sawyer Fuel & Supply Company.  
127 Main Street, Green Bay, Wis.  
Docks located at Sturgeon Bay, Wis.  
Dependent on Self-unloader boats.  
Storage capacity 100,000 tons.  
Depth of water at dock, 21 feet, length of dock, 1000 feet.  
R. R. Conn.: A. & W. Railway Co.

**Fidler Skilling Fuel & Dock Co.**  
Location, foot of St. John St., north of R. R. bridge.  
Self unloading vessels only.  
Storage capacity 10,000 tons.  
Depth of water at dock 16 feet.  
Maximum length of ship 500 feet.

**Smith Coal & Shipbuilding Co., Leatham.**  
Location, foot of Liberty St.  
2 Interstate Cranes.  
Self unloading vessels.  
Storage capacity 15,000 tons.  
Depth of water at dock 16 feet.  
Maximum length of ship 500', beam 55'.  
R. R. Conn.: G. B. & W., A. & W.

### THOROLD, ONT.

**Niagara Dist. Warehouse & Forwarding Co.**  
Location, Welland Canal, west side.  
1 Industrial Tractor Crane with 45' boom.  
Capacity per 10 hours 500 tons.  
Storage capacity 5,000 tons.  
Depth of water at dock 20 feet.  
Can handle any size ship.  
R. R. Conn.: C. N.

**Ontario Paper Co. (Coal Dock)**  
Location on Welland Canal.  
2 Hammerhead type elec. cranes 56' long 2 ton bucket used.  
Capacity per 10 hours 1,500 tons to 2,400 tons.  
Storage capacity 50,000 tons.  
Depth of water at dock 20 feet.

**Weaver Coal Co., Ltd., F. P.**  
Location, Thorold, between Lock 7 and Guard gate.  
Self unloading boats only.  
Storage capacity 100,000 tons.  
Draft 25 feet in canal, 18 feet in slip.

### Ontario Paper Co. (Pulpwood Dock)

Located on Welland Canal.  
4 Conveyors 750 ft. long.  
2 Lidgerwoods with steam hoists and 50' booms.  
Capacity 80 cords per hour.  
45 foot booms and elevated about 16' high.  
Capacity per 10 hours 800 cords.  
Storage capacity 50,000 cords pulpwood.  
Length of dock 300 feet.  
Depth of water at dock 20 feet.

### Ontario Paper Co. (Paper Loading Dock)

Location on Welland Canal.  
2 Conveyors, 245 feet in length.  
Capacity 120 tons per hour.  
Paper storage building has 4,000 tons capacity.  
2 Orton cranes with 59' booms.  
Capacity per 10 hours 1,000 tons of news print.  
Have two warehouses that will hold 11,000 tons newsprint.  
Depth of water at dock 25 feet.  
Length of dock 600 feet.

### THREE RIVERS, QUE.

#### Dominion Steel & Coal, Ltd.

Location extreme west end of city.  
2 steel towers for unloading.  
Size of clam shells used 2 $\frac{1}{2}$  ton.  
Capacity per 10 hours 4,000 tons.  
1 Brown hoist with 1-ton clam shell with 42 foot boom.  
Capacity per 10 hours 500 tons.  
Storage capacity 250,000 tons.

#### St. Lawrence Coaling, Ltd.

Location, water front.  
4 Locomotive Cranes.  
Capacity per 10 hours 1,700 tons.  
Storage capacity 100,000 tons.  
Depth of water at dock 35 ft.  
Maximum length of ship 600 ft.  
R. R. Conn.: CPR.

### TOLEDO, OHIO

#### Ashland Oil & Refining Co. (Ashland, Kentucky)

Location, east side of Maumee just above Toledo Terminal R. R. Bridge.  
Depth of water at dock 24 feet.  
Storage capacity 6,000,000 gallons.  
R. R. Conn.: Nickel Plate.  
Supt.—W. E. Withrow.

### Sinclair Refining Co.

Location, east side of Maumee River, just below Toledo Terminal R. R. Bridge.  
Depth of water at dock 27 feet.  
Storage capacity 26,000,000 gallons.  
R. R. Conn.: Toledo Terminal.  
Supt.—Ray Cline.  
(Dock dismantled, 1951).

### Standard Oil Co. (Ohio)

Location, east side of Maumee River, above Toledo Terminal R. R. Bridge.  
Depth of water at dock 21 feet.  
Storage capacity 2,100,000 gallons.  
R. R. Conn.: Nickel Plate.  
Dock Supt.—W. E. Ames.

### Gulf Refining Co.

Location, east side of Maumee River, just below W. & L. E. (Nickel Plate) R. R. Bridge.  
Gulf Building, Pittsburgh, Pennsylvania.  
Depth of water at dock 21 feet.  
Storage capacity 1,500,000 gallons.  
R. R. Conn.: Nickel Plate.  
Supt.—D. E. Hart.

### Sun Oil Co.

Location, Old Hocking Dock site, east side of Maumee River, above Ash-Consaul Bridge.  
Depth of water at dock 22 feet.  
Storage capacity 4,200,000 gallons.  
R. R. Conn.: None.  
Dock Supt.—R. G. Scott.

### Shell Oil Company

Location, west side of Maumee River, above W. & L. E. (Nickel Plate) R. R. Bridge.  
Depth of water at dock 19 feet.  
Storage capacity 9,000,000 gallons.  
R. R. Conn.: Nickel Plate.  
Supt.—R. A. Harvey.

### Hills & Pound Stevedoring & Warehousing Corp., 716 Superior Street

Location of dock, foot of Bush St., west side of river between Ash-Consaul & Penn. R. R. Bridges.  
Package freight  
Capacity of warehouse 24,000 sq. feet.  
Depth of water at dock 13 feet.  
R. R. Conn.: Pennsylvania.  
Dock Supt.—James C. Whitaker.

**Toledo (City) Division of Harbor & Bridges**  
Located at foot of Madison Ave., west side of River.

Depth of water at dock 14 feet.  
R. R. Conn.: Pennsylvania.  
Commissioner—Norman R. Drulard.

### Baltimore & Ohio Sand Dock

Location, east side of Maumee River above Fassett St. Bridge.  
Depth of water at dock 22 feet.  
(Used by Sand Products Co., in part.)  
Can handle any length ship.  
Supt.—None.

### Middlegrounds Dock (New York Central R. R.)

Location, west side of Maumee River above mouth of Swan Creek.  
Depth of water at dock 20 feet.  
Can handle any length ship.  
Sulphur and Liquid Sugar cargoes.  
R. R. Conn.: N. Y. C., Wabash, B. & O., C. & O., Nickel Plate, & Toledo Terminal.  
Supt.—J. H. Spooner.

### Huron Portland Cement Co.

Location, west side of Maumee River between Penna. R. R. Bridge and Cherry Street Bridge.  
Depth of water at dock 16 feet.  
Maximum length of vessel 450 feet.  
R. R. Conn.: Penna. R. R.  
Supt.—C. S. Tenbrook.

### Kuhlman Builders Supply & Brick Co. (Yard No. 1)

Location, east side of Maumee River above Cherry St. Bridge.  
Depth of water at dock 8 feet.  
R. R. Conn.: New York Central.  
Sand dock.  
No. of cranes 2.  
Length of booms 55 feet.  
Size of buckets used 2 yd.  
Maximum length of boat 200 feet.  
Supt.—Charles E. Kuhlman.

### Kuhlman Builders Supply & Brick Co. (Yard No. 2)

Location, west side of Maumee River, between Penna. R. R. Bridge & Cherry St. Bridge.  
Depth of water at dock 16 feet.  
R. R. Conn.: Penna. R. R.  
Sand Dock.  
No. of cranes 2.  
Length of booms 55 feet.  
Size of buckets used 2 yd.

Maximum length of boat 450 feet.  
Supt.—Charles E. Kuhlman.

### Nicholson Concrete Company

Location, west side of Maumee River below Penna. R. R. Bridge, foot of Mag-nolia St.  
Depth of water at dock 18 feet.  
R. R. Conn.: Penna. R. R.  
Sand Dock.  
No. of cranes 2.  
Length of booms 60 feet & 70 feet.  
Size of buckets used 1 yd. & 2 yd.  
Maximum length of boat 600 feet.  
Dock Supt.—Leonard Matty.

### The Lakefront Dock & Railroad Terminal Co.

Location, south shore of Maumee Bay.  
Three electric operated car dumpers.  
Dumping machine for any size car.  
Capacity per day 1,800 cars.  
Can handle any size ship.  
Storage capacity 7,000 cars including supporting yard.  
Depth of water at dock 25 feet below lake level.  
R. R. Conn.: N. Y. C., B. & O., N. & W., C. & O., Ugn., L. & N., Nickel Plate and Toledo Terminal.  
R. R. Supt.—C. F. Meyers.  
Dock Supt.—C. C. Pund.

### Toledo Marine Terminals, Inc.

Location, site of former A & B Coal Dock, east side Maumee River above Cherry St. Bridge.  
Package freight dock.  
Can handle any size ship.  
Depth of water 21 feet.  
R. R. Conn.: New York Central.  
Operating Manager—Henry J. Cherny.

### Toledo Plaster & Supply Co.

Location, north of Penn. R. R. Bridge, west side of river.  
Sand Dock.  
2 cranes 25 ton capacity.  
Length of booms 50 feet.  
Size of bucket used 1½ yd.  
Dock storage.  
Depth of water at dock 9 feet.  
Maximum length of vessel 125 feet.  
R. R. Conn.: Penna. R. R. & Toledo Terminal R. R.  
Dock Supt.—Sam Renshaw.

### TORONTO, ONT.

#### Canada Coal Co., Ltd.

Location east end of harbor.  
2 Steam Cranes.  
Capacity per 10 hours 2,000 tons.  
Storage capacity 150,000 tons.  
Depth of water at dock 22 ft.  
Can handle any size ship.  
R. R. Conn.: CN and CP.

#### Canada Coal Co., Ltd. (Dock No. 2)

Location, S. side of ship canal.  
Self unloading vessels only.  
Any size vessel.  
Storage capacity 75,000 tons.  
Draft 22 feet. Length of dock 350 feet.

#### Canadian Rail & Harbor Terminals, Ltd.

Foot of York St.  
1 McMyler crane with 50' boom, 2 ton clam shell used.  
Capacity per 10 hours 600 tons.  
2 Mead-Morrison's, 3 ton clam shells used.  
Capacity per 10 hours 600 tons.  
4 electric double drums with 40 to 80' boom.  
3 ton bucket used.  
Capacity per 10 hours 600 tons.  
Storage capacity 10,000,000 cu. ft.  
Depth of water at dock 20 feet.  
Can handle any size ship.  
R. R. Conn.: All roads.

#### Cargo Dockers, Ltd.

Dock location 146 Cherry St., south slip channel.  
Rochester & Pittsburgh Coal Co. (Canada Ltd.).  
Address 320 Bay St.  
Use self-unloading boats and bulk carriers.  
1400 foot conveyor and tunnel.  
5 clams from ¾ to 1½ yard capacity.  
Storage capacity 200,000 tons.  
Depth of water at dock 24 feet.  
Length of dock 950 feet.  
R. R. Conn.: C. N. R., C. P. R.

#### Century Coal Co., Ltd.

Location foot of Cherry St.  
3 American with 54' boom.  
2 ton clam shells used.  
Capacity per 10 hours 1,000 tons.  
Storage capacity 75,000 tons bituminous.  
Depth of water at dock 22 feet.  
Self unloading vessels & bulk freighters.  
Can handle any size ship.  
R. R. Conn.: C. N., C. P. R.

#### Empire Hanna Coal Co., Ltd. (Use these facilities)

**Consolidated Coal & Dock Co., Ltd.**  
Location at entrance to ship channel in harbor.  
Self unloading vessels only.  
Depth of water at dock 20 feet.  
Storage capacity 400,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. P. R.

#### Cosgrove & Co., Ltd.

Location southern ship canal, east from Cherry St.  
1 Crane.  
Also self unloading vessels.  
Depth of water at dock 22 feet.  
Storage capacity 75,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. N., C. P. R.

#### Empire-Hanna Coal Co., Ltd.

Location Unwin Ave., Ash Bridges Bay.  
2 Diesel Cranes.  
Capacity per 10 hours 1,000 tons.  
Depth of water at dock 20 feet.  
Storage capacity 150,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. N.

#### Halliday Coal Docks, Ltd.

Location on ship channel.  
2 Northwest Cranes.  
Capacity per 10 hours 2,000 tons.  
Storage capacity 200,000 tons.  
Depth of water at dock 22 feet.  
Can handle any ship 500' x 90'.  
R. R. Conn.: CN and CP.

#### Harbor Coal Co., Ltd.

Location north side of ship channel and west side of turning basin.  
2 Cranes.  
Self unloaders only.  
Depth of water at dock 18 to 20 feet, mud bottom.  
Storage capacity 125,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. N., C. P. R.

#### Jones Coal, Ltd., J. Frank (Old Millar Coal Co.)

Location north side ship canal to turning basin.  
Self unloading vessels only.  
Depth of water at dock 16 feet.  
Storage capacity 75,000 tons.

Can handle any size ship.  
R. R. Conn.: C. N., C. P. R.

### Milnes Coal Co., Ltd.

Location foot of Cherry St.  
5 Cranes.  
Capacity per 10 hours 2,000 tons.  
Depth of water at dock 20 feet.  
Storage capacity 400,000 tons.  
Can handle any size ship.  
R. R. Conn.: C. N., C. P. R.

### Rogers Co., Ltd., The Elias

Location Cherry St.  
3 Cranes.  
Capacity per 10 hours 5,000 tons.  
Depth of water at dock 25 feet.  
Storage capacity 250,000 tons.  
Can handle any size ship.  
R. R. Conn.: All lines.

### Royal Canadian Fuel Co.

Location Cherry St.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
R. R. Conn.: C. N., C. P. R.

### Standard Fuel Co., Ltd.

Location foot of Cherry St.  
1 Electric tower.  
Capacity per 10 hours 600 tons.  
Also self unloading vessels.  
Depth of water 30 feet.  
Storage capacity 120,000 tons.  
R. R. Conn.: C. P. R., C. N.

### Terminal Warehouses, Ltd.

Location, center of harbor foot of York St.  
1 Crane.  
Depth of water at dock 26 feet.  
Maximum length of ship 400', any beam.  
R. R. Conn.: C. N., C. P. R.

### Toronto Fuels, Ltd.

Location eastern side harbor (Carton St.)  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage capacity 200,000 tons.  
R. R. Conn.: C. N., C. P. R.  
Can handle any size ship.

### Valley Camp Coal Co. of Canada, Ltd.

(Use facilities of Milnes Coal Co., Ltd.)  
Location just west of Cherry St. Bridge  
Self unloading vessels only.  
Depth of water at dock 20 feet.  
Storage capacity 100,000 tons.

Can handle any size ship.  
R. R. Conn.: C. N., C. P. R.

### Weaver Coal Co., Ltd., F. P.

Location, harbor foot of Cherry St.  
3 unloading cranes.  
Capacity per 10 hours 2,000 tons.  
Self unloading vessels also.  
Storage capacity 250,000 tons.  
Depth of water at dock 20 feet.  
Can handle any size ship.  
R. R. Conn.: C. N., C. P.

### TRAVERSE CITY, MICH.

#### Kauer, Vencle J., & Wilhelm, Emanuel, (Hannah-Lay Dock)

Location Grand Traverse Bay, south end.  
Self unloading vessels only.  
Depth of water at dock 14 feet.  
Storage capacity 30,000 tons.  
Maximum length of ship 375 feet.  
R. R. Conn.: P. M.

#### Richard Co., A. W.

Dock located at Acme, Mich.  
Office 321 Bay St.  
Use self-unloading boats only.  
Storage capacity 32,000 tons.  
Depth of water at dock 20 feet.  
Can handle any size boat.  
R. R. Conn.: M. & N. E., P. M., Penna

#### Sears Coal Dock.

Location, west Bay at Traverse City.  
Self unloading vessels only.  
Depth of water at dock 22 feet.  
Storage capacity 18,000 tons.  
Can handle any size ship.

### TRENTON, MICH.

#### Detroit Edison Co.

Location on Trenton channel opposite  
Grosse Isle just south of Highway  
bridge.

Self unloading vessels only.  
Depth of water at dock 22 feet.  
Storage capacity 300,000 tons.  
Maximum length of ship 450', any beam.  
R. R. Conn.: M. C. and Shore Line.

#### Michigan Foundation Co.

Dock located foot of St. John St.  
Office 110, W. Jefferson.  
Depend on self-unloading boats.  
Handle coal, sand and gravel.  
2 cranes with 1 ton buckets used.

Depth of water at dock 18 feet.  
Length of dock 130 feet.

### TRENTON, ONT.

#### Powers & Son, B. W.-Docks 1 and 2.

Location mouth of Trent River.  
Self unloading vessels only.  
Depth of water at dock 11 to 13 feet.  
Storage capacity both dock 30,000 tons.  
R. R. Conn.: C. N. R.

#### Rochester & Pittsburgh Coal Co., Ltd.

Store coal at Power & Sons Docks.

### TWO HARBORS, MINN.

#### Duluth & Iron Range Ry. Co.

3 Mead-Morrison, 2 ton clam shells used.  
Capacity per 10 hours 7,000 tons.  
Storage capacity 180,000 tons.  
Depth of water at dock 21 feet.  
Can handle any size ship.  
R. R. Conn.: C. M. & N.

### TWO RIVERS, WIS.

#### Reiss Coal Co., The C.

Location, south side of river at mouth.  
Self unloading vessels only.  
Depth of water at dock 18 feet.  
Storage capacity 100,000 tons.  
Maximum length of ship 400 feet.

### WALKERVILLE, ONT

#### Hiram Walker & Sons, Ltd.

Dock located on the Detroit River.  
Depend on self-unloading boats.  
Storage capacity 12,000 tons.  
Depth of water at dock 18 feet.  
Maximum length of boat that can be  
handled 260 feet.  
Length of dock 400 feet.  
R. R. Conn.: C. N. R., C. P. E., P. M.  
Wabash, N. Y. C., Essex Terminal

#### Reaume Coal Co., Ltd.

Maximum length of boat 300 feet.  
Depth of water at dock 18 feet.

#### Sterling Construction Co., Ltd.

Maximum length of boat 250 feet.  
Depth of water at dock 18 feet.

### WALLACEBURG, ONT.

#### Canada & Dominion Sugar Co., Ltd.

Location, Sydenham River.  
Self unloading vessels only.  
Depth of water at dock 17 feet.

Storage capacity 30,000 tons.  
Maximum length of ship 300 feet.  
R. R. Conn.: P. M.

### Dominion Glass Co., Ltd.

Location Sydenham River.  
Self-unloading boats only.  
Storage capacity 1,000 tons.  
Depth of water at dock 15 feet.  
Channel 25 feet.  
Length of dock 500 feet.  
R. R. Conn.: P. M.

### Government Wharf

Capacity of warehouse 700 tons.

### WASHBURN, WIS.

#### Michela Coal & Dock Co.

Location in harbor.  
2 Cranes and 1 Industrial Tractor.  
Depth of water at dock 21 feet.  
Storage capacity 200,000 tons.  
R. R. Conn.: C. St. P. M. & O.

### WAUKEGON, ILL

#### Hussey Cor., M. H. Div. of Northwestern- Hanna Coal Co.

Self unloading vessels only.  
Depth of water at dock 17 to 19 feet.  
Storage capacity 75,000 tons.  
Maximum length of ship 550', beam 60'.  
R. R. Conn.: C. & N. W., E. J. E., Soo,  
C. M. & St. P.

### North Shore Gas Co.

#### Formerly North Shore Coke & Chem. Co.)

Location, north east end of harbor.  
1 Mead-Morrison.  
Capacity per 10 hours 2,600 tons.  
Depth of water at dock 17 feet.  
Storage capacity 100,000 tons.  
Maximum length of ship 500', beam 55'.  
R. R. Conn.: E. J. & E., C. & N. W.

### WELLAND, ONT.

#### Clemens, Miller & Co.

Location Welland Canal, Lincoln St.  
Self unloading vessels only.  
Depth of water at dock 14 feet.  
Storage capacity 5,000 tons.  
Can handle any size ship.

#### Diffen Construction & Sup. Co., Ltd.

Location, foot of 4th St., Welland Canal  
Self unloading vessels only.  
Depth of water at dock 10 to 25 feet.  
Storage capacity 30,000 tons.



**Electro Metallurgical Co., Ltd.**  
 Located on Welland Canal.  
 Self unloading vessels only.  
 Depth of water at dock 25 feet.

**Page-Hersey Tubes, Ltd.**  
 Location, east side of Welland Canal.  
 2 Locomotive Cranes.  
 Capacity per 10 hours 400 tons.  
 Depth of water at dock 25 feet.  
 Can handle self unloaders any length.  
 R. R. Conn.: N. Y. C., T. H. & B., C. N.,  
 Wabash.

**Union Carbide Co., Ltd.**  
 Located on Welland Canal.

#### WINDSOR, ONT.

**Canada Cement Co.**  
 Depth of water at dock 18 feet.  
 Maximum length of boat that can be  
 handled 250 feet.

**Canadian Industries, Ltd.**  
 Location on Detroit River.  
 1 Electric Crawler Crane, 1 Steam Crane.

Depth of water at dock 21 feet.  
 Storage capacity 50,000 tons.  
 Can handle any size ship.  
 R. R. Conn.: C. P., C. N. R., M. C., Wa-  
 bash, P. M.

**Confederate Coal & Coke Co., Ltd.**  
 Location Detroit River at foot of South  
 St.  
 Self unloading vessels only.  
 Depth of water at dock 20 feet.  
 Storage capacity 100,000 tons.  
 Can handle any length ship, 50' beam.

**Empire-Hanna Coal Co., Ltd.**  
 Location  $\frac{1}{2}$  mile south of Ambassador  
 Bridge.  
 Self unloading vessels only.  
 Depth of water at dock 22 feet.  
 Storage capacity 50,000 tons.  
 Maximum length of ship 500', beam 50'  
 Fueling facilities—7 hoppers & shutes.

**Ford Motor Co. of Canada, Ltd.**  
 Location Detroit River.  
 1 Mead-Morrison.

Self unloading vessels only.  
 Depth of water at dock 28 feet.  
 Storage capacity 100,000 tons.  
 Can handle any size ship.  
 R. R. Conn.: C. N., Wabash.

**Kovinsky & Sons, Ltd.**  
 Location just east of Pittsburgh Coal  
 Dock.  
 3 Cranes.  
 Storage capacity unlimited.  
 Depth of water at dock 12' 6" for'd. 15'  
 aft.  
 Maximum length of ship 275', beam 46'  
 R. R. Conn.: E. T., connecting with all  
 main lines.

**Mul'en Coal Company (Sandwich Dock)**  
 Location just 1 mile above Steel Dock.  
 Vessel Fueling.  
 Self unloading vessels only.

**Ryan Fuel & Supply Co.**  
 Location 2,000 ft. west of Ambassador  
 Bridge on Detroit River.  
 Self unloading vessels only.

Storage capacity 100,000 tons.  
 Depth of water at dock 20 ft.  
 Can handle any size ship.  
 R. R. Conn. None.

**Sterlin Construction Co. (Merlo Dock)**  
 Location on Detroit River, East Windsor.  
 Self unloading vessels only.  
 Maximum length of ship 213 feet.

#### ZILWAUKEE, MICH.

**Consumers Power Co.**  
 Location Saginaw River at Zilwaukee.  
 1 Industrial Brown Hoist.  
 Capacity per 10 hours 5,000 tons.  
 Depth of water at dock 18 feet, 6 inches.  
 Storage capacity 300,000 tons.  
 Can handle any size ship.  
 R. R. Conn.: M. C., G. T.

### OIL DOCKS ON THE NIAGARA RIVER

**Shell Oil Co.**  
 Supt. A. E. Knight.

**Sun Oil Co.**  
 Supt. Chas. J. Lavey.

**Texas Oil Co.**  
 Supt. M. Melick.

**Atlantic Refining Oil Co.**  
 Supt. W. W. Hamilton.

**Colonial Beacon Oil Co.**  
 Supt. Edw. C. Freiling.

#### BELOW GENERAL ELECTRIC PLANT

**Hambleton Oil Dock.**  
 Supt. Chas. N. Veigel.  
 Just above Grand Island South bridge.  
**Frontier Fuel Oil.**  
 Supt. M. C. Sumpter.  
 Just below Grand Island South bridge.

#### SAND DOCK

**Foundry Supply, Inc.**  
 Old Erie coal dock.  
 Supt. N. P. Dessert

#### STONE DOCKS ON THE BUFFALO RIVER

**Kelley Island Lime & Transport.**  
 Just below Delwood Elevator.  
 Supt. Geo. L. Clevie.

**Michigan Limestone & Chem. Co.**  
 Above old Hamburg Furnace dock.  
 Supt. Thos. G. Rose.

**Federal Portland Cement.**  
 Old Minnesota ore dock.  
 Supt. C. F. Genger.

**Manitoulin Quartzite Quarry Lime-  
 stone Loading Dock, Schequindah  
 Manitoulin Island, Ontario, Six miles  
 from Little Current.**

Will take a Ship 250 ft. in Length.  
 43 ft. Beam, 17 ft. Draft.  
 Loading speed 500 ton per hour.  
 Dredging in progress to accommo-  
 date a Ship 500 ft. in Length.



# COAL LOADING DOCKS OF THE GREAT LAKES

## ASHTABULA, OHIO

### Lower Lake Dock Co. (P. Y. & A. Dock 6)

Location, west side main river.  
1 McMyler car dump, steam and electric.  
Capacity per 10 hours 24,000 tons.  
Can handle any size ship.  
Depth of water at dock 20 feet.  
Operates day and night.  
Storage capacity 1800 cars.  
R. R. Conn.: Pennsylvania.  
Supt.—W. O. Rainnie.

### New York Central Dock No. 9.

1 McMyler Interstate car dumper.  
Capacity per 10 hours 15,000 tons.  
Can handle any size ship.  
Depth of water at dock 21 feet 6 inches.  
R. R. Conn.: New York Central R. R.  
Storage capacity 3,000 cars at Harbor.  
1,000 at Carson.  
Supt.—E. F. Pearson.

## BUFFALO, N. Y.

### D. L. & W.

Foot of Erie Street.  
1 Wellman-Seaver-Morgan car dump.  
Capacity per 10 hours, 12,000 tons.  
Depth of water at dock 22 feet.  
Can handle any size ship.  
Supt.—W. G. Alexander.  
Lehigh Valley R. R.

## CLEVELAND, OHIO

### Irishtown Coal Dock.

Located under High Level Bridge, Cuyahoga River.  
Wellman Engr. Co. coal dumper.  
Capacity per 10 hours 12,000 tons.  
Can handle ship 550' long and 58' beam.  
Depth of water at dock 22 feet.  
Storage capacity 1,500 cars.  
R. R. Conn.: Erie Railroad.  
Supt.—A. G. Miltner.

### (Ellsworth) or Penna. Co. Dock No. 24.

Located foot of West 9th St.  
1 Wellman Engr. Co. car dump.  
Can handle any size ship.  
Depth of water at dock 21 feet.  
Capacity per 10 hours 13,000 tons.  
R. R. Conn.: Pennsylvania R. R.  
Storage capacity 2,500 cars.  
Supt.—M. H. McCarthy.

## CONNEAUT, OHIO

### Pittsburgh & Conneaut Dock Co.

Can handle any size ship.

Capacity per 10 hours 350 cars.

McMyler Electric Car Dumper.

Depth of water at dock 21 feet.

R. R. Conn.: Bessemer & Lake Erie R. R.

Gen. Supt.—K. C. Stevens.

## ERIE, PENNSYLVANIA

### P. & E. Coal Dock Co.

1 McMyler car dumper.  
Capacity per 10 hours 13,000 tons.  
Depth of water at dock 23 feet.  
Can handle any size ship.  
R. R. Conn.: Pennsylvania R. R.  
Supt.—N. A. Lechner.

## FAIRPORT, OHIO

### Toledo, Lorain & Fairport Dock Co.

1 Car dump. McMyler.  
Capacity per 10 hours 12,000 tons.  
Depth of water at dock 23 feet.  
Storage capacity 1,000 cars.  
Can handle any size ship.  
R. R. Conn.: Baltimore & Ohio R. R.  
Supt.—A. C. Benjamin.

## HURON, OHIO

### Wheeling & Lake Erie Dock.

The Cleveland Stevedore Co., Operators.  
1 Car dumper.  
Can handle any size ship.  
Capacity per 10 hours 20,000 tons.  
Depth of water at dock 22 feet.  
Storage capacity 1,800 cars.  
R. R. Conn.: W. & L. E.  
Supt.—A. V. Beckloff.

## LORAIN, OHIO

### The Toledo, Lorain & Fairport Dock Co. (B. & O.)

Location Black River above N. Y. C. & St. L. R. R. Bridge.  
1 McMyler Car Dump.  
Capacity per 10 hours 13,000 tons.  
Can handle any size ship.  
Depth of water at dock 22 feet.  
Storage capacity 2,500 cars.  
R. R. Conn.: Baltimore & Ohio.  
Supt.—Walter Waitt.

### B. & O. Railroad Co.

Operator, The Toledo, Lorain & Fairport Dock Co.  
Location, West shore, outer harbor.  
Heyl & Patterson car dumper.  
Capacity per 10 hours 20,000 tons.  
Can handle any size ship.  
Depth of water at dock 22 feet.

Storage capacity 2,844 cars.

R. R. Conn.: B. & O.

Supt.—G. W. Blanoit.

## N. FAIR HAVEN, NEW YORK

### Lehigh Valley Coal Trestle.

Depth of water at dock 14', 6" to 16'.  
Pocket storage 2,800 tons.  
Can load 1,500 to 2,000 tons per day.

## OSWEGO, NEW YORK

### Delaware Lackawanna & Western R. R. Co.

Dock located on west side, foot 3rd St.  
Dock is equipped with one metal belt conveyor type, with electric telescopic chute and trimmer.  
Capacity loading 8,000 tons in 10 hours.  
No storage space; loaded direct from cars.  
Depth of water at dock 18 feet.  
Maximum ship can handle 400 feet.  
R. R. Conn.: N. Y. C.  
Foreman—C. H. Pilon.  
Supt.—J. F. Gallaher.

## PORT INLAND, MICH.

### Inland Lime & Stone Co.

Equipped with a shuttle conveyor.  
Capacity per hour 3,000 tons.  
Method of storage, stock piles over tunnels and by belt conveyors to ships.  
Storage capacity 150,000 tons.  
Depth of water at dock 22 feet.  
Can handle any size ship.  
R. R. Conn.: Inland Lime & Stone to Soo

## ROCHESTER, NEW YORK

### Charlotte Docks Company.

Location, 3 miles from mouth of Genesee River.  
Loading equipment, One Link-Belt eight pockets with chute attached to sliding boxes.

Maximum length of boat 320 feet x 45 feet  
Depth of water at dock 22 feet.

R. R. Conn.: Baltimore & Ohio R. R.

## SANDUSKY, OHIO

### Lower Lake Dock Co. (P. R. R.)

Leader Bldg., Cleveland, Ohio.  
Car dump No. 1 Heyl & Patterson (steam-electric).  
Car dump No. 2 Wellman-Seaver-Morgan (steam).  
Car dump No. 3 Heyl & Patterson (electric).

Depth of water 22 feet.

Capacity 24 hours 120,000 tons; 2,000 cars.

R. R. Conn.: Penna. R. R.

Length of Docks No. 1 and 2, 1,000 feet.

Length of Dock No. 3, 3,500 feet.

## SODUS POINT, NEW YORK

### Lehigh Valley R. R.

Location, East shore Little Sodus Bay.  
Capacity per 10 hours 2,000 tons.  
Trestle used for coal shipments through pockets.  
Depth of water at dock 16 feet.  
Can handle any size ship.  
R. R. Conn.: L. V.  
Supt.—F. Maguire.

### Pennsylvania R. R. Dock

Location, West Shore of Great Sodus Bay.  
Trestle with electrically operated shute and trimmer.  
Capacity 16,800 per 24 hours.  
Maximum size ship 600' x 60'.  
Depth of water 20 feet.  
Storage capacity 1,000 cars.  
R. R. Conn.: Penn. R. R.

## SOUTH CHICAGO, ILL.

### Rail to Water Transfer Corp.

Location, 101st St. on west side of Calumet River.  
Loading equipment, 60" belt conveyor loading from a pit and feeding a Heyl & Patterson electric telescopic chute and trimmer.  
Capacity 1,800 tons per hour.  
Can handle any size boat.  
Depth of water 22 feet.  
Supt.—J. A. Emrick.  
R. R. Conn.: Belt Railway of Chicago with connections with all originating lines coming into Chicago, Ill.

## TOLEDO, OHIO

### Chesapeake & Ohio Ry. Co., (Presque Isle Dock)

Location, east side of Maumee River, at mouth.  
3 car dumping machines (Brown Hoist Electric).  
Loading capacity 125,000 tons per 24 hrs.  
Storage capacity 15,000 cars.  
Depth of water at dock 25 feet.  
Can handle any size boat.  
R. R. Conn.: C. & O. Ry.  
Dock Manager—J. W. Marshall.

## LIST OF COAST GUARD VESSELS OPERATING ON GREAT LAKES

NAME OR NUMBER	CODE	LENGTH	PERMANENT STATION
Mackinaw	(2)	290'	Cheboygan, Michigan
Arundel	(4)	110'	Chicago, Illinois
Woodbine	(2) (3)	180'	Grand Haven, Michigan
Tupelo	(2) (3)	180'	Toledo, Ohio
Mesquite	(2) (3)	180'	Sault Ste. Marie, Mich.
Sundew	(2) (3)	180'	Milwaukee, Wisconsin
Acacia	(2) (3)	180'	Detroit, Michigan
Woodrush	(2) (3)	180'	Duluth, Minnesota
Hollyhock	(3)	174'	Milwaukee, Wisconsin
Maple	(3)	122'	Ogdensburg, New York
Tamarack	(3)	124'	Sault Ste. Marie, Mich.
White Lupine	(3)	133'	Detroit, Michigan
Cherry	(3)	86'	Buffalo, N. Y.
Dahlia	(3)	81'	Detroit, Michigan
Kaw	(2) (4)	110'	Sault Ste. Marie, Mich.
CG-83382	(1)	83'	Two Harbors, Minn.
CG-83359	(1)	83'	Rochester, N. Y.
CG-83342	(1)	83'	Muskegon, Mich.
CG-83428	(1)	83'	Charlevoix, Mich.
CG-83478	(1)	83'	Cleveland, Ohio
CG-65024-D	(3)	65'	Detroit, Michigan
CG-64307	(2) (4)	64'	Chicago, Ill.
526 Port Huron	(Lightship)	96'	Port Huron, Michigan

CODE LEGEND: 1. Patrol Vessel

2. Icebreaker

3. Tender

4. Tug

## NAME CHANGES OF ACTIVE CANADIAN BARGES

Present Name	Old Name
Black River .....	Blanche H. — Sir Isaac L. Bell
Byrn Barge .....	Bryn Mawr
Collingwood II .....	Alfred J. — W. LeBaron Jenny
Delkote .....	Cordova — Carrington
En-Ar-Co .....	W. S. Calvert
Glenbogie .....	Alexander Maitland
Great Western .....	Str. C. F. Great Western
Ivey, T. A. ....	Erie — Frederica
Londonderry .....	Quebec
Mitchfibre .....	Marcia
Oakbrand .....	M. & F. Hopper — Barge No. 1
Pie River .....	Merle H. — James Nasmyth
Portadoc .....	Ethel J. — George H. Corliss
Proctor, Dan .....	Ed. McWilliams
Quendock .....	Florence J. — Maureen H. — Florence — Martha
Swederope .....	Sidney G. Thomas
Warrenko .....	Chicora
Kenordoc .....	Sagamore — D. Z. Norton

## NAME CHANGES OF ACTIVE CANADIAN STEAMERS

Present Name	Old Name
Acadian .....	Glenmavis
Algocen .....	John J. Barlum
Algorail .....	Home Smith — Wm. H. Mack
Algosoo .....	J. F. Taylor — Saturn
Algosteel .....	Thomas Barlum
Algoway .....	John J. Boland, Jr. — Henry P. Werner — G. Watson French
Allison .....	Lachinedoc
Altadoc .....	E. E. Johnson — John Geistman — Maricopa
Anticosti .....	Glenclava
Ashbay .....	Tourneur
Ashcroft .....	Gleniffer
Barrie .....	R. P. Kernan
Batiscan .....	United States

## NAME CHANGES OF ACTIVE CANADIAN STEAMERS

Present Name	Old Name
Battleford .....	Glenross
Bayanna .....	Aragon
Bayfax .....	Frank C. Osborne
Bayshell .....	Justine C. Allen
Bayton .....	Francis Widlar
Belleville .....	Arabia Bickerdike — Maplebrook — Windsor
Beloeil .....	Pelerin
Bennett, Viscount .....	Berryton — B. F. Berry
Bienville .....	McKie
Blue Cross .....	Red Chief
Blue River .....	Red Head
Brampton .....	Wellandoc
Bricoldoc .....	T. H. Hoyte
Britamette .....	John George
Brown Beaver .....	Fulton
Brown, Frank H. ....	Dromahoe
Budd, Ralph .....	Superior
Burlington .....	S. H. Robbins — H. W. Oliver
Calgarian .....	Glenellah
Carl George, M. ....	Scott Misener
Canadoc .....	Mars — E. A. S. Clarke — H. C. Frick
Cedarbranch .....	Courtright — Glengarnock — John Crerar
Chapleau .....	Glenealy — George C. Howe
Cite' De Trois Rivieres .....	Lauzon
City of Hamilton .....	Japan
City of Montreal .....	China
City of Windsor .....	Maplebrook — Bickerdike — Ara- bia
Cyclo-Brave .....	John Irwin
Clayton .....	Farrandoc
Cleets, Geo. S. ....	Imperial Whitby — Iacoma
Dalwarnic .....	Canadian Harvester
Donnacona .....	W. Grant Morden
Dubrue, Joseph .....	Louis Philippe
Eads, James B. ....	Globe

## NAME CHANGES OF ACTIVE CANADIAN STEAMERS

Present Name	Old Name
Eastern, Shell .....	McDougald, John A. — Lakeshell
Elgin .....	Glengeldie
Erie Isle .....	Waubic
Evertton .....	Fred L. Hewitt — Graham C. Woodruff — M. A. Bradley
Fairmount .....	Metcalfe
Farrandoc .....	Steel Electrician
Firbranch .....	Millican Park
Foran, Clary .....	Milverton — Coteaudoc
Fort Wildoc .....	Regulus — J. J. Albright
France, John A. ....	Starwell
Gargantua .....	D. C. Whitney
Georgian .....	Cape Eternity — Rochester
Goderich .....	Marquette — Glenshee — Sir Wil- fred Laurer — H. M. Hanna, Jr.
Granby .....	F. A. Augsby
Grey Beaver .....	Southton
Hagarty .....	J. H. G. Hagarty
Hamildoc .....	Keymont — Deepwater
Hastings .....	Glencalvie
Heron Bay .....	Robert P. Durham — Agawa
Hindman, Blanche .....	Palmleaf — Camrose — Glenarm — S. N. Parent
Hindman, George .....	Brookton — Iroquois Dornock
Hindman, Helen .....	Aspenleaf — Chandler — Glendowan — Robert Wallace
Hindman, Howard .....	Eastrich — LaSalle
Hudson, A. A. ....	Rahane
Imperial Cobourg .....	Imperoyal
Imperial Cornwall .....	Acadialite
Imperial Goderich .....	Petrolite
Imperial Hamilton .....	Imperial Sarnia — Sarnolite
Imperial Kingston .....	Icolite
Imperial Lachine .....	Rideaulite
Imperial Midland .....	Talaralite
Imperial Ottawa .....	Ottawalite

## NAME CHANGES OF ACTIVE CANADIAN STEAMERS

Present Name	Old Name
Imperial Simcoe .....	Simcolite
Imperial Vancouver .....	Imperial
Imperial Welland .....	Royalite
Imperial Windsor .....	Windsolite
Inkster, Walter .....	Sunchief — Turret Cape
Island Queen .....	Stoney Lake
Joan Virginia .....	Cedarbay
Keewatin .....	Maple Leaf
Kenordoc .....	George R. Donovan
Keydon .....	Swiftwater
Keyholt .....	Stillwater
Kindersley .....	A. E. McKinstry
Kinmount .....	Dalrymple
Knowlton .....	N. H. Botsford
Lanark .....	Glenlochrie
Lemoyne .....	Glenmhor
Leslie, Alexander .....	H. A. Rock — J. T. Hutchinson
Makaweli .....	Cowes
Mancox .....	Bayleaf — Chartsworth — Glen- dochart — Carseniles — H. G. Dalton
Manion, Paul .....	Houson, C. H.
Manitoulin .....	Modjeska
Mantadoc .....	Cepheus — F. W. Gilchrist
Maplebranch .....	Ionic
Mapleheath .....	Toiler
Martian .....	
Maunaloa II .....	Maunoloa
Manzutti .....	Ashleaf — Canmore — Paranil — Glenfarn — J. S. Keefe
McDougald, John A. ....	Lakeshell
McWatters, J. N. ....	Lockwell
Meaford .....	R. J. Buck
Michipicoten .....	City of Windsor
Misener, Lt. John .....	Portwell
Misener, Ralph S. ....	Fairlake
Mohawk Deer .....	Riverton — L. C. Waldo



## NAME CHANGES OF ACTIVE CANADIAN STEAMERS

Present Name	Old Name
Mondoc .....	William Schlupp
Mullen, John .....	J. H. Deveraux
Murphy, E. P. ....	Ralph Gilchrist
Midland City .....	America
Milverton .....	Coteaudoc
Newbrundoc .....	D. E. McKay—Canadian Engineer
New York News .....	Belvoir
Norco .....	Inca
Norfolk .....	Gienbuckie
Normac .....	James R. Elliott
Novadoc .....	N. M. Paterson — Canadian Path- finder
Oakbranch .....	Maplehill
Oil Transporter .....	Transoil
Ontadoc .....	Sirius — R. L. Ireland
Osler .....	E. B. Osler
Outarde .....	Brulin
Oxford .....	Glenorvie
Penetang .....	W. B. Reynolds
Pierce, Daniel .....	U. S. S. Shickleamy — Elizabeth W. Sinclair
Pine Bay .....	Rouvray
Pinebranch .....	Empire Stickelback — Thunder Bay — Malta
Ponoka .....	Lehigh
Poplar Branch .....	Springbank Park
Portadoc .....	James B. Foote — Eugene C. Roberts
Prescodoc .....	Sioux
Prescott .....	Glenisla — Western Star
Prindoc .....	Calverly Jr., W. D. — Nye, Harold B.
Quedoc .....	Kamaris — Mariska
Queenston .....	Lachinedoc
Renvoyle .....	Glenledi
Richelieu .....	Narragansett
River Shell .....	P. G. Campbell
Saskadoc .....	W. C. Franz — Uranus — W. E. Reis
Scotiadoc .....	Martin Mullen

## NAME CHANGES OF ACTIVE CANADIAN STEAMERS

Present Name	Old Name
Secord, Captain C. D. ....	S. B. Way — A. E. R. Schneider — Charles R. VanHise
Shelter Bay .....	New York News
Sherbrooke .....	Edw. L. Strong
Simcoe .....	Glencorrie
Sonia .....	Delson — Hidarves
Soodoc .....	Moses Taylor
Soreldoc .....	Cheyenne — Phencia
Spruce Bay .....	Soutier
Sprucebranch .....	Otterburn Park
Starbuck .....	Nine — Scranton
Starmount .....	Pabjune
Superior .....	Parks Foster
Tadouac .....	Virginia
Taurus .....	Oswego Socony
Texaco Brave .....	Cyclo Brave — John Irwin
Texaco Chief .....	Cyclo Chief
Texaco Warrior .....	Cyclo Warrior
Thorold .....	Chicago Tribune
Transbay .....	Peter Koenig
Transland (Can.) .....	Inland — Steel Chemist
Translake .....	Poplarbay — Biessard
Transriver .....	Maplebay — Sattenville
Transream .....	Transiter
Troisdac .....	Algonquins
Ulva .....	Poznan — Carronpark
Valley Camp .....	Kinloch
Vandoc .....	Argus — H. S. Holden
Victorious .....	Victory
Viscount, Bennett .....	Berryton — B. F. Berry
Washington Times Herald .....	Manaeuagan — Empire Rother — Delaware — Imari
Weston .....	Coteaudoc
Wilkinson, Frank .....	Fairriver
Willow Bay .....	Oissel
Willowbranch .....	Rosemount — Saskatoon
Windoc .....	Hydrus — M. A. Hanna
Windsor .....	Iroquois
Yankannuck .....	Mindemoya — J. W. Simpson — Manchester

## NAME CHANGES OF ACTIVE AMERICAN BARGES

Present Name	Old Name
Hilda .....	Pere Marquette 19
Lillian .....	Marq. and Bessm'r M. T. No. 2
Normil .....	Leona — City of Saugatuck
Resolute .....	Manda
S. O. Co. "C" .....	Antrim
Transport .....	C. C. Barnes

## NAME CHANGES OF ACTIVE AMERICAN STEAMERS

Present Name	Old Name
Adams, Cuyler .....	Sahara
America .....	Mohawk
Andrews, Mathew .....	Fred G. Hartwell
Arcturus .....	James B. Wood
Armstrong, Frank .....	Pilot Knob 1 st
Atlantic Trader .....	F. J. Peterson — Crathorne
Avery, Sewell .....	Lancashire
Barnes, Andrew M. ....	I. L. I. 102
Barnes, Richard J. ....	I. L. I. 101
Bay State .....	J. L. Colby (Whaleback)
Bay View .....	A. D. Thompson (Whaleback)
Beaumont Parks .....	Renown
Bethlehem .....	Midvale
Billings, Frank .....	Champlain
Block, E. J. ....	N. F. Leopold — W. R. Woodford
Block, Joseph .....	Arthur Hawgood
Boland, John J. ....	U. S. Gypsum — Stephen M. Clement
Blue Comet .....	Troy Socony
Brown, Fayette .....	C. L. Hutchinson
Brown, Harvey H. ....	H. A. Berwind
Browning, L. D. ....	T. H. Browning — Caralia
Browning, Troy H. ....	Scott E. Land
Buckeye .....	Thomas Britt — G. N. Wilson — E. L. Booth — D. M. Whitney
Burlington .....	Minneapolis
Cadillac .....	Lake Angeline
Calverley, W. D., Jr. ....	Harold B. Nye
Cambria .....	E. H. Utley
Campbell, J. A. ....	A. C. Dustin

## NAME CHANGES OF ACTIVE AMERICAN STEAMERS

Present Name	Old Name
Canopus .....	George H. Russell
Carrollton .....	Marquette & Bessemer No. 1
Caulkins, Ralph S. ....	R. R. Richardson — J. M. Jenks
Chacornac .....	Cadillac — Steel King
Champlain .....	Belle Isle
Chisholm, Alex D. ....	Hoyt, Eiton II — Wm. P. Snyder
City of Cheboygan .....	Ann Arbor No. 4
City of Munising .....	Pere Marquette No. 20
City of Port Huron .....	City of Cheboygan
Clarke, E. A. S. ....	H. P. Bope
Clevelandr .....	Twin Ports
Clymer, Irving L. ....	Munson, John G. — Carl D. Bradley
Cliffs, Victory .....	Notre Dame Victory
Coastal Carrier .....	Alden Barnes Fiertz
Coastal Creek .....	Willowbranch — Empire Saskatoon — Rosemont
Collins, E. C. ....	E. F. Holmes
Consumers Power .....	Harry Yates — Jacob T. Kopp
Conway, Carl C. ....	R. L. Agassiz — W. A. Hawgood
Coolidge, S. B. ....	Australia
Cornelius, Adam E. ....	Capt. John Roen — George H. Humphrey
Cornelius, Adam E., Jr. ....	G. J. Grammer
Columbia .....	Mascotte
Crawford, George G. ....	LeGrand S. DeGraff
Croft, Harry W. ....	F. G. Hartwell
Davin, John W. ....	Charles O. Jenkins
Detroit Edison .....	Cornelius, Adam E.
Detroitr .....	Twin Cities
Diamond Alkali .....	Frank H. Goodyear
Donnelly, Charles .....	Troy
Dow Chemical .....	Diamond Alkali — Louis R. Davidson
Dunlap, Charles E. ....	L. M. Bowers
Emery, John R. ....	Trenton
Esso Delivery II .....	Hartford Socony
Ewig, Harry T. ....	J. W. Ailes — Baltic — W. W. Brown

## NAME CHANGES OF ACTIVE AMERICAN STEAMERS

Present Name	Old Name
Fawcett, Donald F. ....	Chemong
Fellowcraft .....	Robert Mills
Ferris, James E. ....	F. R. Hazard — Ontario
Fiertz, Alden Barnes .....	I. L. I. 104
Fiertz, Robert Barnes .....	I. L. I. 103
Filbert, Wm. J. ....	William M. Mills
Findlay, H. L. ....	Matthew Andrews
Finland .....	Harry Coulby
Fink, George R. ....	J. J. Turner — J. Q. Riddle
Fontana .....	Frank Seither — R. W. England
Gallagher, Michael .....	Edwin N. Ohl
Galloway, Charles W. ....	Leonard B. Miller
Galster, John L. A. ....	J. B. John — West Oil
Gillies, Donald B. ....	Joseph G. Butler, Jr.
Girdler, Tom M. ....	Louis M. H. Howe
Grand Island .....	Eugene Zimmerman
Heekin, Albert E. ....	Wm. A. Amberg
Hennepin .....	G. G. Barnum — Socapa
Hewitt, Fred L. ....	Sonoma — D. S. Troxel
Highway 16 .....	LST 393
Holloway, W. W. ....	C. Russell Hubbard — H. A. Hawgood
Hood, Clifford F. ....	J. H. McLean — Bransford
Hosford, Harry Wm. ....	F. B. Squire
House, Francis E. ....	William B. Kerr
Humberdoc .....	Norfolk — Glenbuckie
Huron .....	Doriss Cole
Hutchinson, Gene C. ....	C. L. Hutchinson
	Sir Trevor Dawson — W. C. Moreland
Ingalls, George H. ....	Wm. L. Brown
International, The .....	Warner, Wm. H.
Ironwood .....	Usona — Roslyn — Bayusona — Charles Beatty
Joliet .....	Herbert F. Black
Jones, Harry R. ....	D. G. Kerr
Kendrick, Edward S. ....	H. P. McIntosh
Kinney, A. T. ....	Caldera
Kopmeier, Norman J. ....	Dow Chemical — W. T. Roberts — E. D. Carter

## NAME CHANGES OF ACTIVE AMERICAN STEAMERS

Present Name	Old Name
Kulas, E. J. ....	Wm. C. Atwater
Lackawanna .....	E. E. Slick — D. B. Meacham
LaSalle .....	F. A. Bailey — J. H. Sheadle
Lebanon .....	E. B. Morris — J. G. Munro
Leetsdale .....	W. D. Rees
Lehigh .....	Mesabi
Lubrolake .....	Mercury
McAlpine, James E. ....	W. H. Truesdale
McCarthy, T. J. ....	Morris S. Tremaine — Mary C. Elphicke
McCulloch, C. H., Jr. ....	Ward Ames
McFarland, O. S. ....	M. A. Reeb — Kensington
McGeane, W. H. ....	Stadacona
Mackinac Islander .....	Oliver H. Percy
Manuel, John S. ....	E. L. Pierce — St. Clair
Marquette .....	E. L. Wallace
Maryland .....	A. E. Newbold — James Corrigan
Mataafa .....	Pennsylvania
Mathiott, E. G. ....	D. E. Callender — H. P. Eells, Jr. — S. B. Way — G. B. Nie-nauber — Sargent — A. G. Brower
Mead, George W. ....	Francis L. Robbins
Meteor .....	South Park — Frank Rockefeller
Meyers, Carl W. ....	Crescent City
Michigan .....	Charles N. Warner
Michigan (Motorship) .....	I. L. I. 105
Michigan (Tanker) .....	Belgium — H. S. Wilkinson
Miller, J. Clare .....	Harvey D. Goulder
Moloney, D. A. ....	Troy H. Browning — A. E. Cornelius, Jr. — G. J. Grammer
Moody, R. E. ....	J. McCartney Kennedy — Collier — P. P. Miller
Milwaukee Clipper .....	Juniata
Mudge, Edmund W. ....	Quincy A. Shaw
Munising .....	F. M. Osborne
Nassau .....	Glencairn — G. A. Richardson — G. J. Gould
Negaunee .....	E. N. Saunders

## NAME CHANGES OF ACTIVE AMERICAN STEAMERS

Present Name	Old Name
North Star	Crudoil — Panoil
Oakwood	M. G. Hausler
Oglebay, Crispin	S. B. Way — Wm. Livingstone
Paisley, R. J.	J. E. Savage — Thomas Britt — Christopher
Pathfinder	Samuel Mather
Paul, Charles A.	Powhattan — E. J. Kulas — General Garretson
Petroheat	Dolomite No. 3
Perseus	F. J. Hecker
Pine Ridge	Charles Heiden
Pioneer	J. H. Bartow
Post, G. G.	Luzon — John Anderson
Rand, George F.	William C. Agnew
Reiss Brothers	William K. Field
Reiss, Clemens A.	F. T. Heffelfinger
Reiss, J. L.	W. K. Bixby
Reiss, Otto M.	Lynford E. Geer — James S. Dunham
Reiss, Richard J.	Adirondack
Reiss, William A.	John A. Topping
Richardson, W. C.	Wainwright
Robbins, S. H.	H. W. Oliver
Robinson, C. S.	Loftus Cuddy
Rocket	General Markham — Radiant
Rockwood	J. A. Pearson — Cordova — Vindal — Jessie Spaulding
Sandcraft	Lake Clear
Sandmaster	Lake Weir
Sarnian	Chili
Saunders, E. N., Jr.	Wm. H. Becker — A. W. Thompson
Schneider, Cletus	Thomas Adams
Schneider, Pam	R. J. Paisley — George L. Craig
Schoellkopf, J. F., Jr.	Hugh Kennedy
Schwartz, K. V.	Lakewood — Syracuse
Scobell, Joseph S.	Griffin
Sensibar, J. R.	Frank C. Ball
Shasta	C. W. Watson

## NAME CHANGES OF ACTIVE AMERICAN STEAMERS

Present Name	Old Name
Sheadle, J. H.	Wm. G. Mather
Shiras, McGilvray	Umbria
Sinaloa	W. F. Rapprich — Sinaloa
	Harry Yates — Consumers Power
Sloan, George A.	Hill Annex
Smith, Edmund P.	— J. T. Kopp — G. N. Wilson
Standard Portland Cement	Clifford F. Moll
Steel King	Delores W. Cooke — Starucca
Steelton	Pilot Knob 2nd
Stifel, William F.	Normania
Sullivan Brothers	Otto M. Reiss — F. B. Wells
Sumatra	Empire City
Sweden	L. C. Smith
Sylvania	D. M. Philbin — Sylvania
Taplin, Frank E.	C. W. Kotcher
Tate, Ben E.	William Nelson — Panay
Thompson, David P.	Wilpen
Thunder Bay Quarries	John J. Boland
Townsend, Paul H.	Coastal Delegate
United States Gypsum	Thunder Bay Quarries — T. H. Wickwire, Jr.
Viking	Clinton — Viking
Wallace, Robert B.	E. J. Earling
Weir, David M.	Edward A. Uhrig — Sheldon Parks
Weir, Ernest T.	Worrell Clarkson
Wells, J. P.	Hazen Butler — Frank Seither — Joshua W. Rhodes
Wescoat, L. S.	W. R. Linn
White, Charles M.	Mount Mansfield
Williams, John C.	E. N. Saunders, Jr. — Abraham Stern
Williamsport,	J. H. Macoubrey — John A. Donaldson
Wolverine	Michael J. Bartelme — Sir Henry Bessemer
Yates, Harry	Theodore H. Wickwire
Young, Colonel E. M.	Hoover & Mason
Youngstown	H. H. Porter



**ORE SHIPMENT LAKE SUPERIOR DISTRICT**

Year	Lake United States and Canada	All Rail	Total
1914	32,021,897	925,694	32,947,591
1915	46,318,804	1,315,639	47,634,443
1916	64,734,198	2,168,580	66,902,778
1917	62,498,901	2,195,735	64,694,636
1918	61,156,732	1,867,488	63,024,220
1919	47,177,395	1,542,930	48,720,325
1920	58,527,226	2,004,241	60,531,467
1921	22,300,726	551,079	22,851,805
1922	42,622,248	1,393,282	44,015,530
1923	59,026,092	1,772,434	60,798,526
1924	42,623,840	1,272,521	43,896,361
1925	54,098,492	1,436,320	55,534,812
1926	58,530,509	1,439,500	59,970,009
1927	51,105,254	1,238,845	52,344,099
1928	53,981,388	874,253	54,855,641
1929	65,195,595	961,157	66,157,359
1930	46,582,982	604,679	47,187,661
1931	23,467,786	28,442	23,496,228
1932	3,567,985	20,623	3,588,608
1933	21,623,898	48,512	21,672,410
1934	22,003,380	60,444	22,063,824
1935	28,358,809	144,692	28,503,501
1936	44,827,905	375,767	45,203,672
1937	62,522,959	587,281	63,110,240
1938	19,263,886	286,023	19,549,909
1939	45,072,615	475,359	45,547,974
1940	63,712,982	596,232	64,309,214
1941	80,116,360	631,452	80,747,812
1942	92,076,781	1,410,068	93,486,849
1943	84,404,852	2,016,161	86,421,013
1944	81,170,538	1,183,136	82,353,674
1945	75,714,750	1,266,401	76,981,151
1946	59,372,573	1,655,797	61,028,370
1947	77,878,998	1,806,145	79,685,143
1948	82,940,192	1,752,818	84,693,010
1949	69,560,791	1,430,699	70,991,490
1950	78,214,930	3,971,615	82,186,545
1951	89,080,145	7,918,798	96,998,943

**TOTAL FROM OPENING—BY RANGES**

	Total Through 1950	1951
1854	Marquette	257,629,783
1877	Menominee	230,412,503
1884	Gogebic	273,936,531
1884	Vermilion	84,487,601
1892	Mesabi	1,718,766,320
1892-4	Misc. U. S.	3,222,898
1911	Cuyuna	69,897,814
1900	Misc. Canada	15,668,913
1941	Fillmore Co.	1,204,240
		2,655,226,603
		96,998,943
		2,752,225,546

**LAKE SUPERIOR DISTRICT IRON ORE**

Tonnage Consumed Annually  
Tonnage on Lower Lake Docks and on  
Furnace Yards

Year	Ore Consumed	Ore on Lower Lake Docks and on Furnace Yards
1924	45,978,000	19,435,000
1925	54,767,000	17,312,000
1926	58,359,000	17,708,000
1927	52,933,000	20,753,000
1928	56,823,000	19,570,000
1929	63,646,000	15,930,000
1930	45,192,000	20,285,000
1931	24,115,000	28,722,000
1932	10,284,000	33,479,000
1933	18,116,000	28,848,000
1934	22,114,000	26,581,000
1935	30,861,000	24,817,000
1936	44,639,000	19,370,000
1937	53,996,000	14,632,000
1938	25,703,000	33,676,000
1939	44,361,000	22,790,000
1940	62,426,314	18,106,151
1941	76,335,682	16,937,173
1942	86,225,460	20,064,744
1943	89,027,373	18,496,988
1944	87,247,000	17,891,801
1945	74,575,878	16,428,765
1946	62,093,056	23,078,989
1947	80,806,627	13,554,803
1948	80,504,215	17,131,962
1949	70,998,420	17,802,854
1950	83,536,678	14,099,250
1951	89,369,439	15,071,767

**ORE LOADING DOCKS OF THE GREAT LAKES****DULUTH, MINNESOTA**

Duluth, Missabe & Iron Range Railway Co., 2 docks  
Storage Capacity, 268,800 tons

**SUPERIOR, WISCONSIN**

Great Northern Railway, 4 docks  
Storage Capacity, 441,800 tons  
Northern Pacific Railway, 1 dock  
Storage Capacity, 108,500 tons

**TWO HARBORS, MINNESOTA**

Duluth, Missabe & Iron Range Railway Co., 3 docks  
Storage Capacity, 168,800 tons

**ASHLAND WISCONSIN**

Chicago & Northwestern Railway, 2 docks  
Storage Capacity, 140,600 tons  
Minn., St. Paul & Sault Ste. Marie Railway, 1 dock  
Storage Capacity, 105,000 tons

**ESCANABA, MICHIGAN**

Chicago & Northwestern Railway, 2 docks  
Storage Capacity, 172,500 tons

**MARQUETTE, MICHIGAN**

Duluth, South Shore & Atlantic Railway, 1 dock  
Storage capacity, 56,250 tons.  
Lake Superior & Ishpeming Railway, 1 dock  
Storage Capacity 50,000 tons

**FACTS REGARDING THE MESABI RANGE**

The Mesabi Range extends continuously from near Grand Rapids, Minnesota, on the Mississippi River, east-northeast for about 90 miles to near Birch Lake, about 15 miles south of Ely, on the Vermillion Range.

Ore was discovered on the Mesabi Range in the fall of the year 1890, by Messrs. Merritt of Duluth, near the present Mountain Iron Mine, and in the fall of the next year on the Biwabic property by the same parties.

The year 1892 recorded the first shipment of iron ore from this range, when 4,245 tons were shipped from the Mountain Iron Mine. The following year saw ten mines on the shipping list, with a total shipment of 613,620 tons. At the end of the year 1948, the total shipments from the Mesabi Range had reached the figure of 185,703,424 tons, and at the end of the year 1941 1,120,493,676.

The record production from Mesabi Range in the year 1942, the total being 70,280,078.

The Mesabi Range is producing approximately two-thirds of the ore going down from the Lake Superior district, and more than half the total being mined in the whole United States.

## BAROMETER READING

**WIND-BAROMETER INDICATIONS:**—When the wind sets in from points between south and southeast and the barometer falls steadily, a storm is approaching from the west or northwest, and its center will pass near or north of the observer within 12 to 24 hours with the wind shifting to northwest by way of southwest and west. When the wind sets in from points between east and northeast and the barometer falls steadily, a storm is approaching from the south or southwest, and its center will pass near or to the south or east of the observer within 12 to 24 hours with the wind shifting to northwest by way of north. The rapidity of the storm's approach and its intensity will be indicated by the rate and the amount of the fall in the barometer.

Height of Barometer Lake Level	Direction of Wind	Character of Wind and Weather Indicated
29.40 to 29.60 and steady	West	Fair, slight changes in Temperature, gentle to fresh winds.
29.40 to 29.60 rising	West	Fair, cooler, fresh west to northwest winds.
29.40 to 29.60 falling	South	Warmer, increasing southerly winds.
29.60 or above falling rapidly	East to South	Warmer, rain or snow within 36 hours, increasing east to southeast winds.
29.60 or above rising rapidly	West to North	Cool and clear, quickly followed by warmer variable winds.
29.60 or above steady	Variable	No immediate change but wind will go to south inside of 36 hours.
29.40 or below falling slowly	South to East	Rain or snow, increasing easterly winds.
29.40 or below falling rapidly	South to East	Rain or snow, high easterly winds, followed within 48 hours by clearing, cooler west to northwest winds.
29.40 or below rising slowly	South to West	Clearing, colder, fresh to brisk west to northwest winds.
29.20 or below falling rapidly	South to East	Severe storm of wind and rain, wind shifting to northwest within 36 hours.
29.20 or below falling rapidly	East to North	Severe northeaster, with heavy rain or snow, and winds backing to northwest.
29.20 or below rising rapidly	Going to West	Clearing and cooler, probably cold wave in winter.

0.50 inch should be added to each of the pressure figures in the left column so as to have the pressure ranges expressed in representative sea level values.

The great storms of November 1913 and November 1940 had two characteristics in common: they moved rapidly and they moved in a northerly direction.

### BAROMETER READINGS

Barometer readings are usually expressed in terms of sea level pressure. This means that the barometer reading at a weather station on the lakes is first corrected for the height of the barometer above the lake, then corrected for the height of the lake above sea level and the resultant is announced as the barometer reading whether the term "sea level reading" is stated or not.

To obtain the "above water" correction add 0.01 inch for each 10 feet of exposure above the waterline. The corrections to be applied for each of the Great Lakes to obtain sea level readings are:

Lake Superior .....	0.64
Lakes Michigan, Huron, St. Clair .....	0.62
Lake Erie .....	0.61
Lake Ontario .....	0.26

It is seldom that an aneroid barometer is adjusted to show the exact pressure; therefore, it is necessary to apply a correction in order to eliminate errors. The amount of this correction may be determined by comparison with a standard Weather Bureau barometer. Those wishing to adjust their barometers by comparison with Weather Bureau instruments may bring them to any Weather Bureau Office, if they so desire. The instrumental error, once determined, should be applied to all readings from that barometer. However, as the error may fluctuate from time to time, comparisons with standard Weather Bureau barometers should be made at frequent intervals.

The following example shows the method of applying corrections to obtain the sea level pressure from the observed barometer reading:

Observed reading of a barometer 27 feet above the waterline on Lake Superior .....	29.50
Correction for instrument error (determined from previous comparison with Weather Bureau instrument) .....	-0.08
Reading corrected for instrument error .....	29.42
Correction for height above water (27 feet) .....	+0.03
Reading corrected to Lake Superior level .....	29.45
Correction to reduce to sea level .....	+0.64
Reading reduced to sea level .....	30.09

## THE WIND COMPASS TO A LOW OR CYCLONE.

Compiled by Rev. F. L. Odenbach, S. J. St. Ignatius College, Cleveland,  
for the Ship Masters of the Great Lakes in token of the  
high esteem he has for them.

1. Cirrus (fine hair cloud, the first to show itself after fine weather) moves out of the storm on a radial line.

2. Cirro-stratus (bands of or sheets of fine fibers) moves from a direction to the Left of Cirrus.

3. Cirro-cumulus (small pellets and granulations in bands or patches) move from the left of Cirro-stratus.

4. Alto-cumulus (larger balls or plates of a white snowy appearance) move from a direction to the left of Cirro-cumulus.

5. Cumulus and Cumulus-stratus (the heavy lower clouds) cross the direction of Cirrus at a right angle.

6. The wind comes from a direction (usually more than a right angle) to the left of Cirrus, or the direction of the storm.

(a) If this system is more open and the wind nearer to 180 degrees than 90 degrees from the direction of Cirrus, the cyclone is weak.

(b) If the wind nears 90 degrees and all cloud paths are closed up, i. e. forming smaller angles with the Cirrus direction, the cyclone is a strong one.

(c) If this wind rose, or any part of it observed, shows a backing motion, you are in the northern half of the storm area.

(d) If this wind veers—you are in the southern half.

### Rule 1

(a) Smoke blowing down and water finely rippled.

(b) With the Barometer rising (A High is coming on

(c) And the Temperature falling (and a Low has passed.

### Rule 2

(a) Smoke rising.

(b) Temperature rising.

(c) Barometer falling.

(d) Wind from Southeast or Northeast with fog.

Shows that a Low is advancing.

With a Southeast it is North of you.

With a Northeast and fog it is South of you.

## TABLE FOR FINDING THE DISTANCE OFF A CERTAIN OBJECT

Multiply the distance run between any of the following factors and 90 to get the distance off when abreast.

30°	..... X .....	.58	53°	..... X .....	1.33
31°	..... X .....	.60	54°	..... X .....	1.38
32°	..... X .....	.62	55°	..... X .....	1.43
33°	..... X .....	.65	56°	..... X .....	1.48
34°	..... X .....	.67	57°	..... X .....	1.54
35°	..... X .....	.70	58°	..... X .....	1.60
36°	..... X .....	.73	59°	..... X .....	1.66
37°	..... X .....	.75	60°	..... X .....	1.73
38°	..... X .....	.78	61°	..... X .....	1.80
39°	..... X .....	.81	62°	..... X .....	1.88
40°	..... X .....	.84	63°	..... X .....	1.96
41°	..... X .....	.87	64°	..... X .....	2.05
42°	..... X .....	.90	65°	..... X .....	2.14
43°	..... X .....	.93	66°	..... X .....	2.25
44°	..... X .....	.97	67°	..... X .....	2.36
45°	..... X .....	1.00	68°	..... X .....	2.48
46°	..... X .....	1.04	69°	..... X .....	2.61
47°	..... X .....	1.07	70°	..... X .....	2.75
48°	..... X .....	1.11	71°	..... X .....	2.90
49°	..... X .....	1.15	72°	..... X .....	3.08
50°	..... X .....	1.19	73°	..... X .....	3.27
51°	..... X .....	1.23	74°	..... X .....	3.40
52°	..... X .....	1.28			



**Buffalo, N. Y.**

Buffalo River, Dead Creek (Ohio Basin), Evans Slip, City  
Ship Canal, and Union Canal bridges: 3 blasts (— — —)

**Buffalo, N. Y.****Niagara River, (Buffalo, N. Y.)**

Black Rock Canal—Ferry Street: 1 long, 2 short (— — —)  
International railroad: 1 long (—)  
Niagara River—International railroad: 1 long (—)

**Tonawanda Harbor, N. Y.**

Niagara River—Tonawanda Island: 3 blasts (— — —)  
Tonawanda Creek Railway: 3 blasts (— — —)  
Bridge stands open, except when switching cars.

**Ashtabula, Ohio**

County highway: 1 long (—)  
N. Y. Central R. R.: 1 long, 1 short, 1 long (— — —)

**Cleveland, Ohio**

This signal is for all bridges from harbor entrance to  
head of navigation. 1 long, 2 short blasts. (— — —)  
For both bridges in the old river bed. 1 long, 1 short,  
1 long, 1 short. (— — —)

**Lorain, Ohio**

Black River, Erie Ave.: 1 long, 2 short (— — —)  
N. Y. C., Nickle Plate: 3 long blasts (— — —)

**Toledo, Ohio**

Maumee River Bridges: 3 long blasts (— — —)

**Duluth, Minn.**

Duluth Ship Canal Bridge: 3 long blasts (— — —)  
Interstate Bridge: 1 long, 1 short, 1 long (— — —)  
Minnesota Draw, Northern Pacific: 1 long, 2 short (— — —)  
Wisconsin Draw, Northern Pacific: 2 long, 2 short (— — —)  
Grassy Point Bridge: 2 short, 1 long (— — —)  
Lamborn Ave.: 3 short (— — —)  
New Duluth transfer bridge: 3 long (— — —)

**Chicago, Ill.**

Chicago River and Branches: All Bridges, 3 short blasts, except  
that 4 shorts are sounded for the Chicago & N. W. Ry. bridge  
at Kinzie Street, and for the C. M. & St. P. R. R. bridge at  
North Ave. when going either way, and 5 short when approaching  
Lake Street bridge from the north. Calumet River, all bridges,  
3 short blasts. (— — —)

**Milwaukee, Wis.**

All bridges across the Milwaukee, Menomonee and Kinnickinnic  
Rivers, except as noted below, 3 short blasts (— — —)  
C. M. & St. P. R. R. and North Plankinton Avenue highway across  
Menomonee River and Kinnickinnic Ave. highway and C. & N.  
W. Ry. (between Kinnickinnic and South First Street) across  
Kinnickinnic River: 4 short blasts (— — —)

**Green Bay, Wis.**

Main Street: 2 short, 1 long (— — —)  
Walnut Street: 1 long, 2 short (— — —)  
Mason Street: 1 long, 1 short, 1 long (— — —)  
Fox River Railroad bridges and East River bridges: 3 long  
blasts (— — —)

**LAKE CARRIERS ASSOCIATION SEPARATE COURSES ON  
LAKES SUPERIOR, HURON, MICHIGAN, ERIE AND ONTARIO  
SEPARATE COURSES**

**LAKE SUPERIOR**

Downbound vessels shall lay a course from Duluth-Superior Harbor to pass not less than 12 miles off Devils Island, Eagle Harbor Light, Copper Harbor Light, and Manitou Island Light; thence to a point not less than  $2\frac{1}{2}$  miles off Whitefish Point Light; thence head 148 degrees to a point  $2\frac{1}{2}$  miles off Ile Parisienne Light and thence 139 degrees to off Gros Cap Lightship; provided, that vessels leaving Superior Harbor shall lay their course 45 degrees for about 20 miles before turning on the course to Devils Island.

On the downbound course from Ashland, vessels shall lay a course from 5 miles  $81^{\circ}$  from La Point Light to intersect the downbound course from Duluth 12 miles north of Eagle Harbor Light.

Downbound vessels from Marquette shall lay a course to pass not less than 7 miles off Au Sable Point Light, thence to pass not less than 7 miles off Crisp Point Light and continue same course to intersect the downbound course from Manitou to Whitefish Point.

Downbound vessels shall lay a course from a point one mile south of Passage Island, 148 degrees for a distance of 15 miles; thence 120 degrees to a point  $2\frac{1}{2}$  miles, 30 degrees from Whitefish Point, there joining the present Lake Carriers' Association downbound course to Ile Parisienne.

Upbound vessels for south shore and western Lake Superior points shall lay a course from lighted bell buoy east of Point Iroquois, 300 degrees for six miles; thence 322 degrees to a point 4 miles off Ile Parisienne Light; thence 328 degrees to a point 1 mile off Whitefish Point Light; thence lay a course not over 280 degrees to a point not more than  $4\frac{1}{2}$  miles off Crisp Point Light; thence to pass not more than 4 miles off Manitou Island Light and not more than 5 miles north of Copper Harbor Light, Eagle Harbor Light, and Devils Island Light.

Upbound vessels bound for Marquette shall lay a course from a point not over  $4\frac{1}{2}$  miles off Crisp Point Light to pass not more than  $4\frac{1}{2}$  miles off Au Sable Light, thence to destination.

Vessels bound for Fort William and points on the north shore of Lake Superior shall take departure from Gros Cap close aboard, then steer 360 degrees for  $2\frac{1}{4}$  miles; thence head on Whitefish Point Light to a point  $1\frac{1}{2}$  miles off Ile Parisienne Light; thence to a point 6 miles off Whitefish Point Light and thence to destination.

**Limits of Anchorage in Whitefish Bay Are Recommended as Follows:**

From a point on the Birch Point range  $\frac{1}{2}$  mile above Gros Cap, 340 degrees for  $2\frac{1}{2}$  miles; thence 314 degrees to a point 2 miles off Ile Parisienne Light.

From a point on the Birch Point range  $\frac{1}{2}$  mile above Gros Cap, 229 degrees for  $\frac{1}{2}$  mile; then 300 degrees for 2.7 miles; thence to a point  $3\frac{1}{2}$  miles off Ile Parisienne Light.

No downbound vessel to proceed from this anchorage area unless authorized to do so by the United States Coast Guard.

**LAKE HURON**

Downbound vessels shall lay a course from Detour Passage to pass not less than 15 miles northeast from Middle Island Light, thence not less than 12 miles ENE of Harbor Beach Light.

Downbound vessels from the Straits of Mackinac shall lay a course 70 degrees for 6 miles from a point south of Poe Reef, then shall lay their course to join the regular downbound course from Detour at a point not less than 15 miles northeast of Middle Island Light.

Downbound vessels from Calcite from a point abreast of Adams Point Gas Buoy shall lay a course about 100 degrees to intersect the westerly limit of the general downbound course at a point about 15 miles northeast of Middle Island Light.

Downbound vessels from Alpena shall head on Harbor Beach Light to a point 12 miles above Point aux Barques Light, thence haul about southeast to cross upbound traffic and reach the outside lane.

Upbound vessels on Lake Huron shall lay a course to pass not over 5 miles ENE of Harbor Beach Light and not over 7 miles  $71^{\circ}$  off Middle Island Light.

Upbound vessels on Lake Huron bound for Straits of Mackinac shall lay a course for Poe Reef Passage from a point not over 5 miles 50 degrees from Presque Isle Light to abreast of Cordwood Point Gas Buoy.

Eastbound vessel from Round Island Passage shall lay a course 90 degrees to a point about  $4\frac{1}{2}$  miles off Martin Reef; thence to a point  $\frac{3}{4}$  mile S. E. of Detour Light.

### ANCHORAGE OFF DETOUR

It is recommended that the following limit of anchorage be observed in Lake Huron off Detour Light so that vessels may enter or leave the Detour Passage in time of congestion due to fog or other conditions:

No vessel to anchor east of a bearing on Detour Light of 340° or closer than  $\frac{3}{4}$  mile to the light or north of the Detour-Martin Reef course.

### LAKE MICHIGAN

Southbound vessels, bound for Milwaukee and west shore points north thereof shall run out 30 miles from point of departure abreast of Lansing Shoal on course to Rock Island Passage, thence to destination.

Southbound vessels, bound for west shore points south of Milwaukee, shall run out 30 miles from point of departure abreast of Lansing Shoal on course to Rock Island Passage, thence head on Milwaukee breakwater to a point 19 miles, 115 degrees from Twin River Point Light, thence to destination.

Southbound vessels from Sturgeon Bay and points north thereof, as far as Port Inland, bound for ports near the south end of Lake Michigan, shall lay their course to a point 19 miles, 115 degrees from Twin River Point Light, joining the main southbound lane, thence to destination.

Southbound vessels from the Straits of Mackinac bound for east shore points north of Point Betsie shall use the Grays Reef Passage Course.

Southbound vessels from the Straits of Mackinac bound for east shore points south of Point Betsie shall use the Northabout Course by Lansing Shoal.

Northbound vessels for Straits of Mackinac will navigate via Manitou Passage. This rule does not apply to vessels coming out of Green Bay.

Vessels downbound out of St. Martins and Rock Island Passage shall set a course to pass not more than 6 miles off Seul Choix.

Vessels bound from ports near the south end of Lake Michigan to Escanaba shall keep not more than 8 miles off Wind Point and not more than 5 miles off Twin River Point Light.

Northbound vessels to Port Inland from near the south end of Lake Michigan shall follow the northbound Manitou Course to a point about 8 miles off Point Betsie, thence to about 4 miles off Boulder Reef, and thence to destination.

### LAKE ERIE

Downbound vessels leaving the Detroit River for ports east of Middle Ground Shoal shall continue on course 164° until  $1\frac{1}{4}$  miles outside of Amherstburg Outer Channel Lighted Buoy, thence 104° for  $11\frac{1}{2}$  miles to pass 2 miles off Colchester Reef Light, thence 99° for  $16\frac{3}{4}$  miles to pass north of Pelee Passage Light, thence 122° to pass south of Southeast Shoal Light.

Downbound vessels for Port Colborne or Buffalo from point of departure, Southeast Shoal, shall lay a course to a point not less than 9 miles off Long Point, thence to destination.

Upbound vessels from Port Colborne or Buffalo to a point on South Shore, Lake Erie, east of Marblehead, shall lay a course to pass not over 5 miles off Presque Isle Light, thence to destination.

Upbound vessels from Port Colborne or Buffalo bound to Southeast Shoal shall lay a course to pass not more than 3 miles off Long Point, thence to Southeast Shoal.

Upbound vessels for Detroit River, departing from a position 1 mile south of Southeast Shoal Light shall steer 302° for 10 miles to a position  $\frac{7}{8}$  miles 32° from Armenia Wreck Lighted Buoy, thence 278° for 14 miles to pass 1 mile off Colchester Reef Light, thence 284° for Amherstburg Outer Channel Lighted Buoy 2.

Upbound vessels for Toledo, Ohio, and Monroe, Michigan, when 1 mile off Pelee Passage Light, shall steer 272° to pass approximately  $1\frac{1}{2}$  miles off Middle Sister Island Light, thence to destination.

### When Masters May Exercise Discretion in Departing From the Separate Courses

It is understood that masters may exercise discretion in departing from these courses when ice and weather conditions are such as to warrant it. Most of the courses are designated on the general charts of the several lakes issued by the United States Lake Survey.

### DANGER AREAS

Masters are advised to acquaint themselves with "danger areas" used for military practices and defined by governments of both countries in their notices to mariners. While most of these areas



are open to surface navigation by large vessels without restrictions, masters should cooperate closely with military authorities in any area intercepted by the special courses prescribed herein where restrictions are in effect.

### Lake Ontario

#### Downbound

1. Downbound vessels from Port Weller to Kingston and Cape Vincent from a position  $\frac{1}{2}$  mile off Port Weller piers shall lay a course  $49^\circ$  for  $8\frac{1}{2}$  miles to pass not more than  $1\frac{1}{2}$  miles off Niagara Bar Buoy, thence  $74^\circ$  for 103 miles to a position not less than 7 miles off Point Peter, thence heading on Main Duck Island  $61^\circ$  for 21 miles to a position not less than 5 miles off False Duck Island, thence  $40^\circ$  to Psyche Shoal Buoy.

2. Downbound vessels to Kingston and Cape Vincent from Toronto, western entrance, Port Credit and Clarkson, from a position 2 miles off Gibraltar Point shall lay a course  $84^\circ$  for  $113\frac{1}{2}$  miles to pass not less than 7 miles off Point Peter, thence recommended courses to Psyche Shoal.

Downbound vessels from Toronto, eastern entrance, to Kingston and Cape Vincent shall run out on ranges and intercept the downbound course from Gibraltar Point.

3. Downbound vessels from Port Weller to Toronto, western entrance, from a position  $\frac{1}{2}$  mile off Port Weller piers shall lay a course  $315^\circ$  for 4 miles, thence  $342^\circ$  for  $23\frac{3}{4}$  miles to Toronto Approach Buoy.

4. Downbound vessels from Port Weller to Hamilton from a position  $\frac{1}{2}$  mile off Port Weller piers shall lay a course  $315^\circ$  for 4 miles, thence  $273^\circ$  for 25 miles to Burlington Approach Buoy.

#### Upbound

1. Upbound vessels from Kingston and Cape Vincent from a position abreast of Psyche Shoal Buoy shall lay a course  $248^\circ$  for  $22\frac{1}{2}$  miles to a position not more than 3 miles off Point Peter, thence  $255^\circ$  for  $101\frac{1}{2}$  miles to a position not less than 7 miles off Niagara Bar Buoy, thence  $208^\circ$  for 13 miles to a position  $\frac{1}{2}$  miles off Port Weller piers.

2. Upbound vessels from Kingston and Cape Vincent to Toronto, Port Credit and Clarkson, from a position not more than 3 miles off Point Peter shall lay a course  $263^\circ$  heading on Gibraltar Point.

3. Upbound vessels from Toronto, western entrance, to Port Weller shall lay a course from Toronto Approach Buoy  $158^\circ$  for  $27\frac{1}{4}$  miles to a position  $\frac{1}{2}$  mile off Port Weller Piers.

4. Upbound vessels from Hamilton to Port Weller from a position  $\frac{1}{2}$  mile off Burlington piers shall lay a course  $98^\circ$  for  $28\frac{3}{4}$  miles to a position  $\frac{1}{2}$  mile off Port Weller piers.

### RULES GOVERNING NARROW CHANNELS

The following Rules and Regulations have been established by Government Agencies:

#### St. Marys River

Rule 14. Vessels of 500 gross tons or over shall at no time exceed a speed of 12 statute miles per hour through any portion of the St. Marys River between Everens Point and Big Point.

Rule 20. (a) No vessel of 500 gross tons or over shall approach nearer than one-quarter of a mile to a vessel in the same direction, nor pass such vessel, in a channel where the speed is restricted to 12 miles an hour or less, except between Bayfield Rock and the St. Marys Falls Canal, and between Light No. 50 marking northern entrance to West Neebish Channel and Upper Lake Nicolet Front Range Light and for upbound vessels only between Vidal Shoal and Lookout Station No. 6, or except as provided in paragraph (b) of this rule and in Rule 21.

(b) In order to facilitate passing in Lake Nicolet, upbound vessels may, after passing red lighted buoy No. 58 off Shingle Bay, approach not nearer than 500 feet to a vessel bound in the same direction.

Rule 21. A vessel at normal speed coming up on a tug towing a dredge or scow bound in the same direction as the overtaking vessel in a restricted channel may pass such tow, after the prescribed exchange of signals. Under such circumstances the tug shall not increase speed during the passing, and shall haul with its tow to the proper side of the channel to allow passing room.

Rule 22. No vessel shall pass or attempt to pass another vessel bound in the same direction, when such passing would bring more than two vessels abreast, in any of the passages between the intersection of the Winter Point and Pilot Island Ranges in Lake Munuscong, and Big Point in upper St. Marys River, except that such passing is permitted between Bayfield Rock and the St. Marys Falls Canal.



For further rules see "Rules and Regulations Relating to Anchorage and Navigation in the St. Marys River", United States Lake Survey Bulletin published by the United States Lake Survey Office, Detroit, Michigan.

### St. Clair and Detroit Rivers Speed

(1) In the St. Clair River in front of Sarnia, Ontario, the speed of vessels shall not exceed nine miles per hour over the bottom.

Note: The city limits of Sarnia extend from a point just below the international tunnel to a point about opposite Bay Point.

(2) In the St. Clair River, the speed of vessels of 500 gross tons or over shall not exceed 12 miles per hour over the bottom within the following limits:

(i) **Downbound.** From Stag Island Upper Light to St. Clair Middle Ground Lower Lighter Buoy; and from Walpole Island Upper Light to the lower end of the St. Clair Flats Canal.

(ii) **Upbound.** From the lower end of the St. Clair Flats Canal to Russel Island Light; and from Stag Island Shoal Light to Stag Island Upper Light.

(3) In the lower Detroit River, the speed of vessels of 500 gross tons or over shall not exceed 12 miles per hour over the bottom within the following limits:

(i) **Downbound.** From Livingstone Channel Upper Entrance Light to Bar Point Lighted Bell Buoy.

(ii) **Upbound.** From Bois Blanc Light at the lower end of Bois Blanc Island to Livingstone Channel Upper Entrance Light.

### Passing

(1) In the St. Clair River and the lower Detroit River, any vessel overtaking a tug with a tow moving in the same direction may pass such tow by giving a signal indicating on which side the vessel desires to pass, and the pilot of the tug shall haul with the tow to the proper side of the channel to provide passing room.

(2) In the St. Clair River no vessel of 500 gross tons or over shall pass or attempt to pass another vessel of 500 gross tons or over moving in the same direction within the following limits:

(i) **Downbound.** From the first buoy above Fort Gratiot Light to Port Huron Traffic Lighted Buoy; from Stag Island Upper Light to St. Clair Middle Ground Lower Lighted Buoy; and from Walpole Island Upper Light to the lower end of the St. Clair Flats Canal.

(ii) **Upbound.** From the lower end of the St. Clair Flats Canal to Walpole Island Upper Light; from Stag Island Shoal Light to Stag Island Upper Light; and from Port Huron Traffic Lighted Buoy to the first buoy above Fort Gratiot Light.

(3) In the lower Detroit River between Fighting Island South Light and Bar Point Lighted Bell Buoy, no vessel shall pass or attempt to pass another vessel or vessels moving in either the same or opposite direction where more than two vessels would be abreast.

(4) There shall be a time interval of not less than five minutes between any two vessels entering or navigating the Livingstone Channel between the Upper Entrance Light and Bar Point Lighted Bell Buoy, except that tugs without tows and vessels under 100 gross tons are exempt from this rule.

### THE USE OF MILLIBARS

The daily weather service is based upon weather reports from hundreds of widespread observations over land and sea. Many of these reports include not only the surface weather observations, but also aerological observations which are extremely valuable in determining the amount of moisture and other elements in the atmosphere involved in the production of rain and storms. The accuracy of weather forecasts and the value of the daily weather service to the public depend in large measure upon having these widespread reports, not only from the United States, but also from adjoining countries like Canada and Mexico, and from contiguous ocean areas.

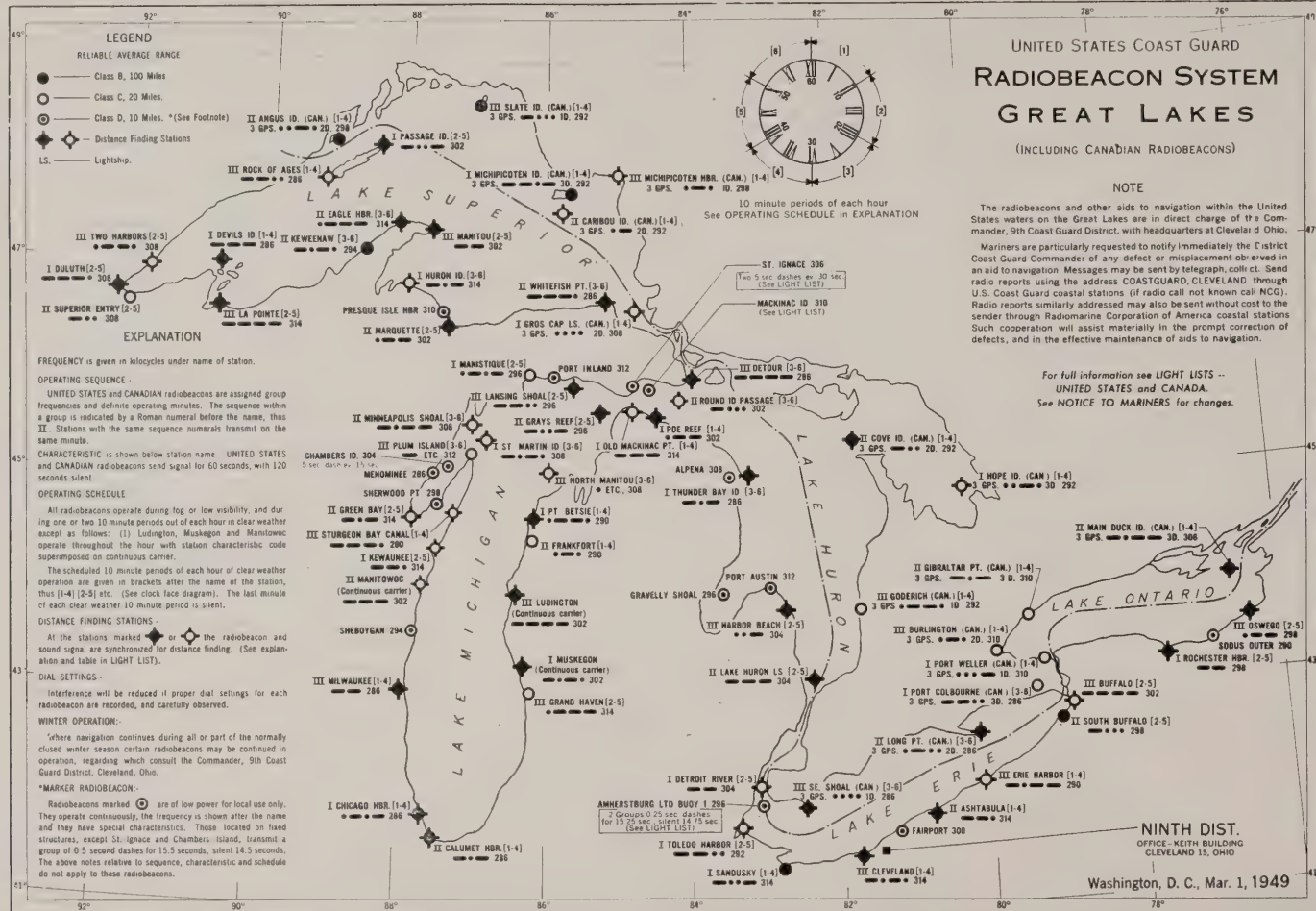
Atmospheric pressure is one of the important elements in these weather reports. In earlier years it was customary to express atmospheric pressure in inches denoting height of the mercury column in the barometer. Since the inch is a unit of length and not a unit of pressure, the use of inches for expressing atmospheric pressure is unsatisfactory for modern purposes. Several years ago the millibar, which is the standard unit of pressure, was adopted for aerological observations, and since then its advantages have resulted in its adoption by nearly all countries for use in expressing barometric observations taken on ships at sea as well as at regular weather stations on land.

Because of the delay incident to converting millibars into inches, with the increasing number of weather reports from ships at sea and from Canada and other countries, the Weather Bureau on July 1, 1939, adopted the numeral code which uses millibars, and began publishing these units on its Washington Weather Map. This permits speedier handling of reports and greater accuracy in analyzing weather situations for the purpose of issuing weather maps, forecasts, and advices. Since January 1, 1940, isobars on all published weather maps have been labeled in millibars instead of inches.

It is not difficult to become accustomed to the use of the absolute unit, the millibar, in speaking of atmospheric pressure. In order to assist the public in using millibars a convenient table showing the values in inches of mercury for each millibar has been prepared and appears on this card. It should be remembered that 1015.9 millibars equals 30.00 inches of mercury; 1 millibar equals approximately one-300th of an inch (0.0295). One-tenth inch of mercury equals 3.4 millibars, approximately.

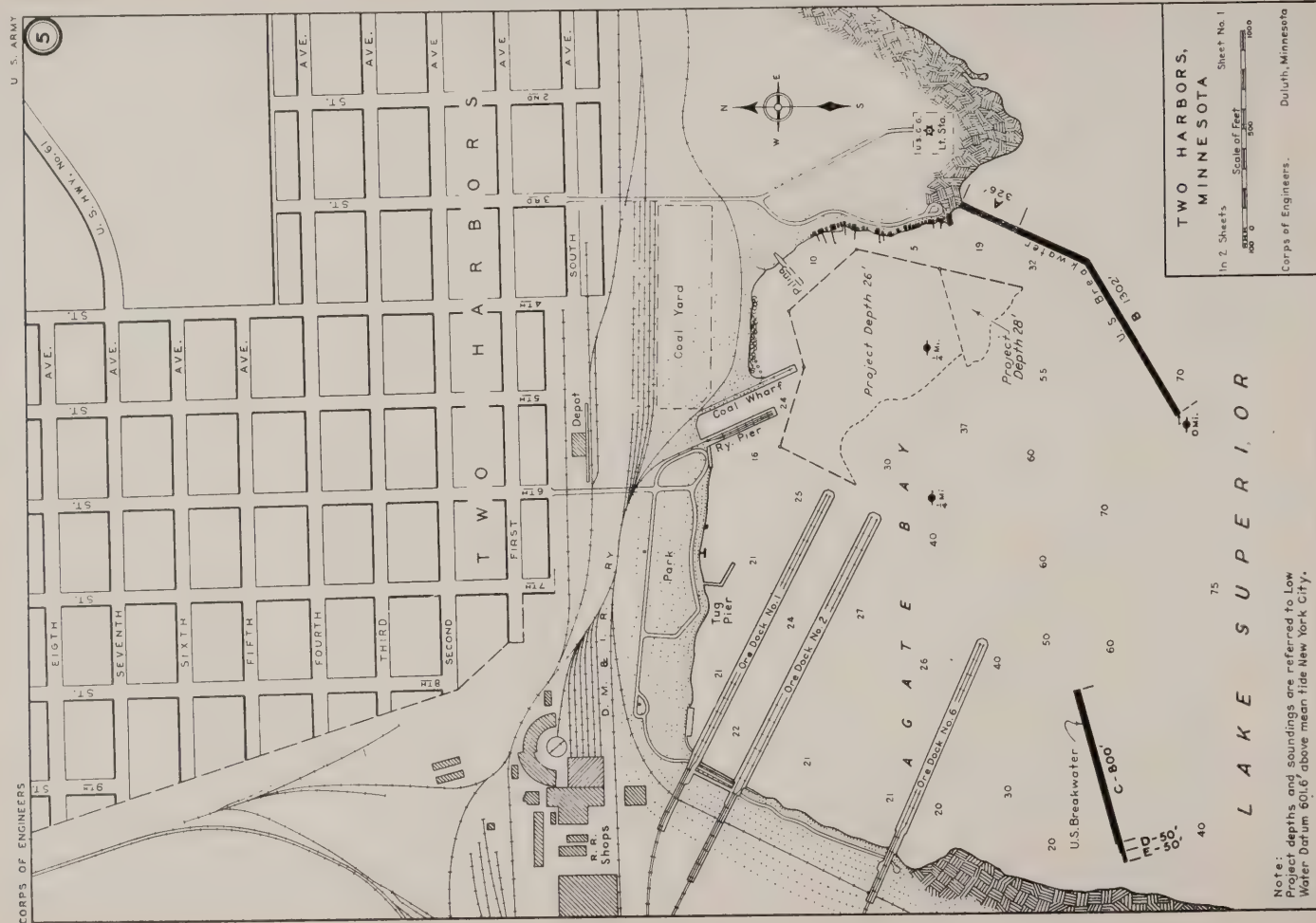
The appearance of the published weather map is not significantly changed by use of the millibar system of pressure values. Isobars are drawn for each interval of 3 millibars of pressure variation, which closely corresponds to the interval of one-tenth of an inch as heretofore used.

Mb. Inches	Mb. Inches	Mb. Inches	Mb. Inches	Mb. Inches	Mb. Inches
940 27.76	960 28.35	980 28.94	1000 29.53	1020 30.12	1040 30.71
941 27.79	961 28.38	981 28.97	1001 29.56	1021 30.15	1041 30.74
942 27.82	962 28.41	982 29.00	1002 29.59	1022 30.18	1042 30.77
943 27.85	963 28.44	983 29.03	1003 29.62	1023 30.21	1043 30.80
944 27.88	964 28.47	984 29.06	1004 29.65	1024 30.24	1044 30.83
945 27.91	965 28.50	985 29.09	1005 29.68	1025 30.27	1045 30.86
946 27.94	966 28.53	986 29.12	1006 29.71	1026 30.30	1046 30.89
947 27.96	967 28.56	987 29.15	1007 29.74	1027 30.33	1047 30.92
948 27.99	968 28.58	988 29.18	1008 29.77	1028 30.36	1048 30.95
949 28.02	969 28.61	989 29.21	1009 29.80	1029 30.39	1049 30.98
950 28.05	970 28.64	990 29.23	1010 29.83	1030 30.42	1050 31.01
951 28.08	971 28.67	991 29.26	1011 29.85	1031 30.45	1051 31.04
952 28.11	972 28.70	992 29.29	1012 29.88	1032 30.47	1052 31.07
953 28.14	973 28.73	993 29.32	1013 29.91	1033 30.50	1053 31.10
954 28.17	974 28.76	994 29.35	1014 29.94	1034 30.53	1054 31.12
955 28.20	975 28.79	995 29.38	1015 29.97	1035 30.56	1055 31.15
956 28.23	976 28.82	996 29.41	1016 30.00	1036 30.59	1056 31.18
957 28.26	977 28.85	997 29.44	1017 30.03	1037 30.62	1057 31.21
958 28.29	978 28.88	998 29.47	1018 30.06	1038 30.65	1058 31.24
959 28.32	979 28.91	999 29.50	1019 30.09	1039 30.68	1059 31.27



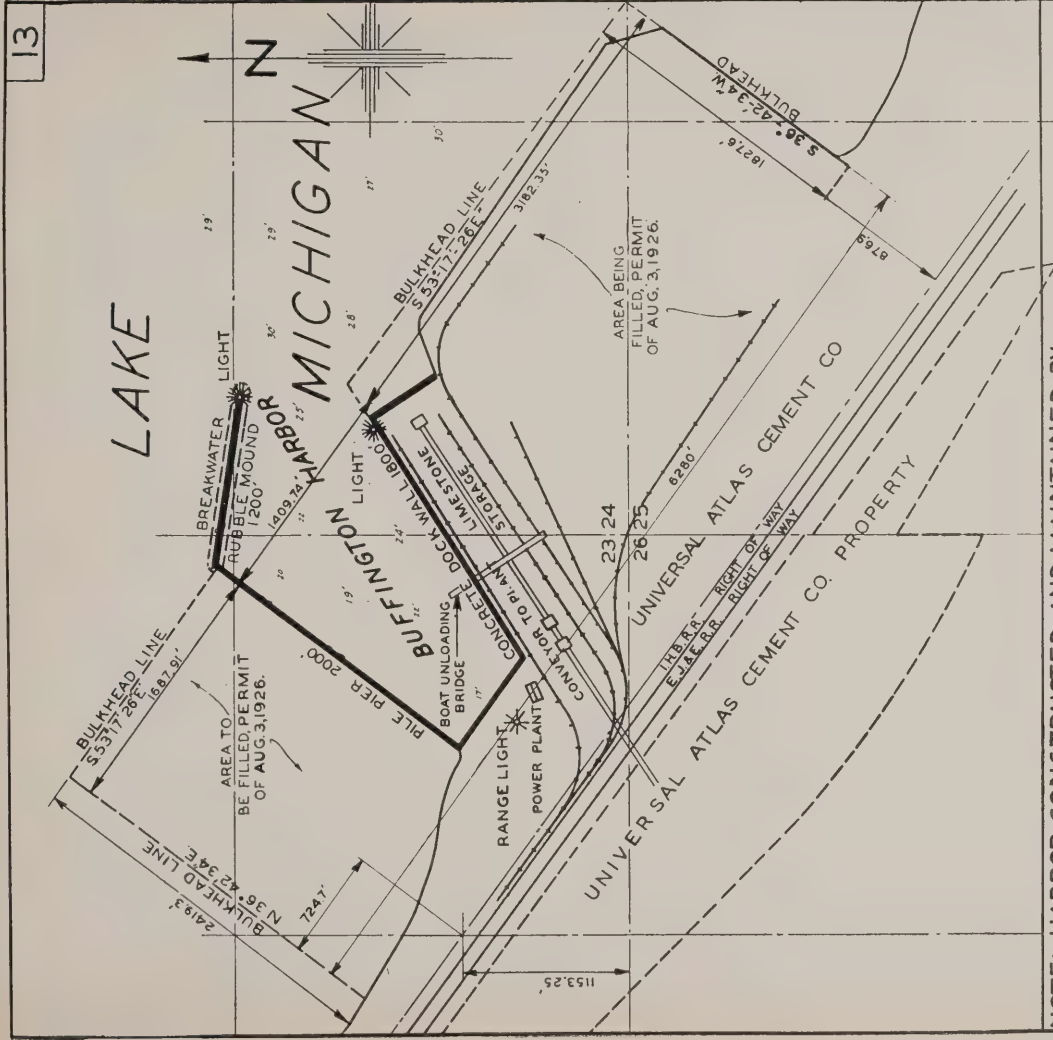








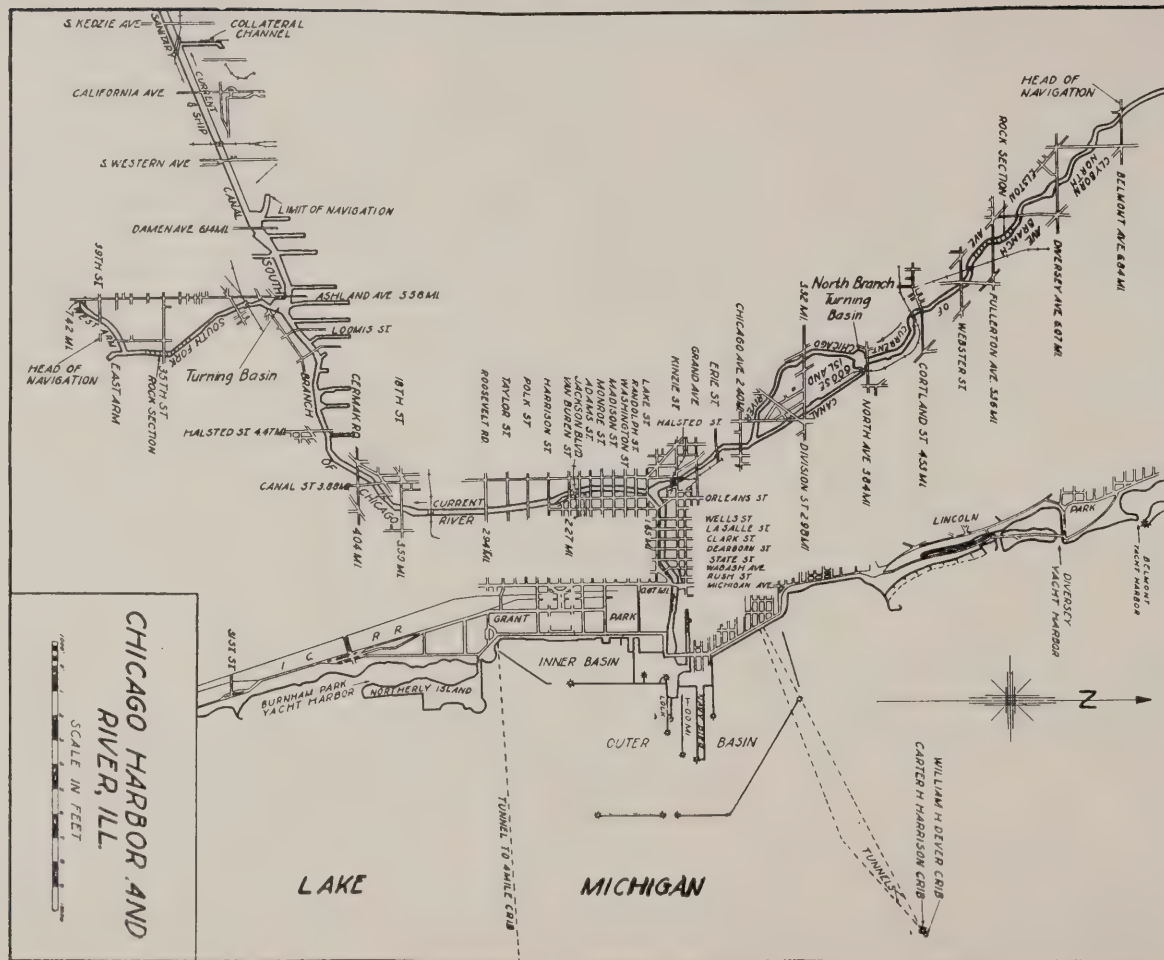












CORPS OF ENGINEERS

U. S. ARMY

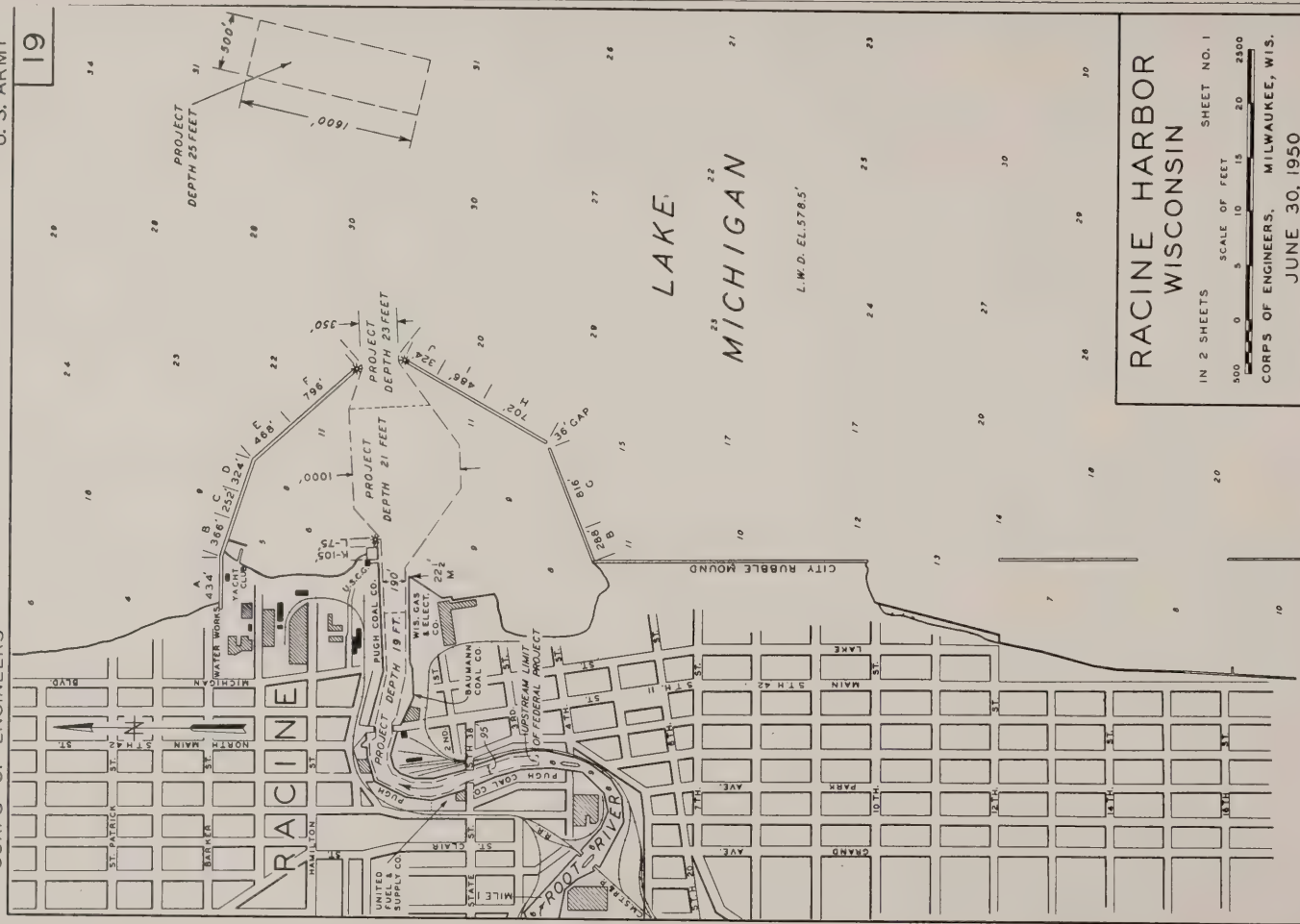
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U. S. ARMY

9-



RACINE HARBOR  
WISCONSIN

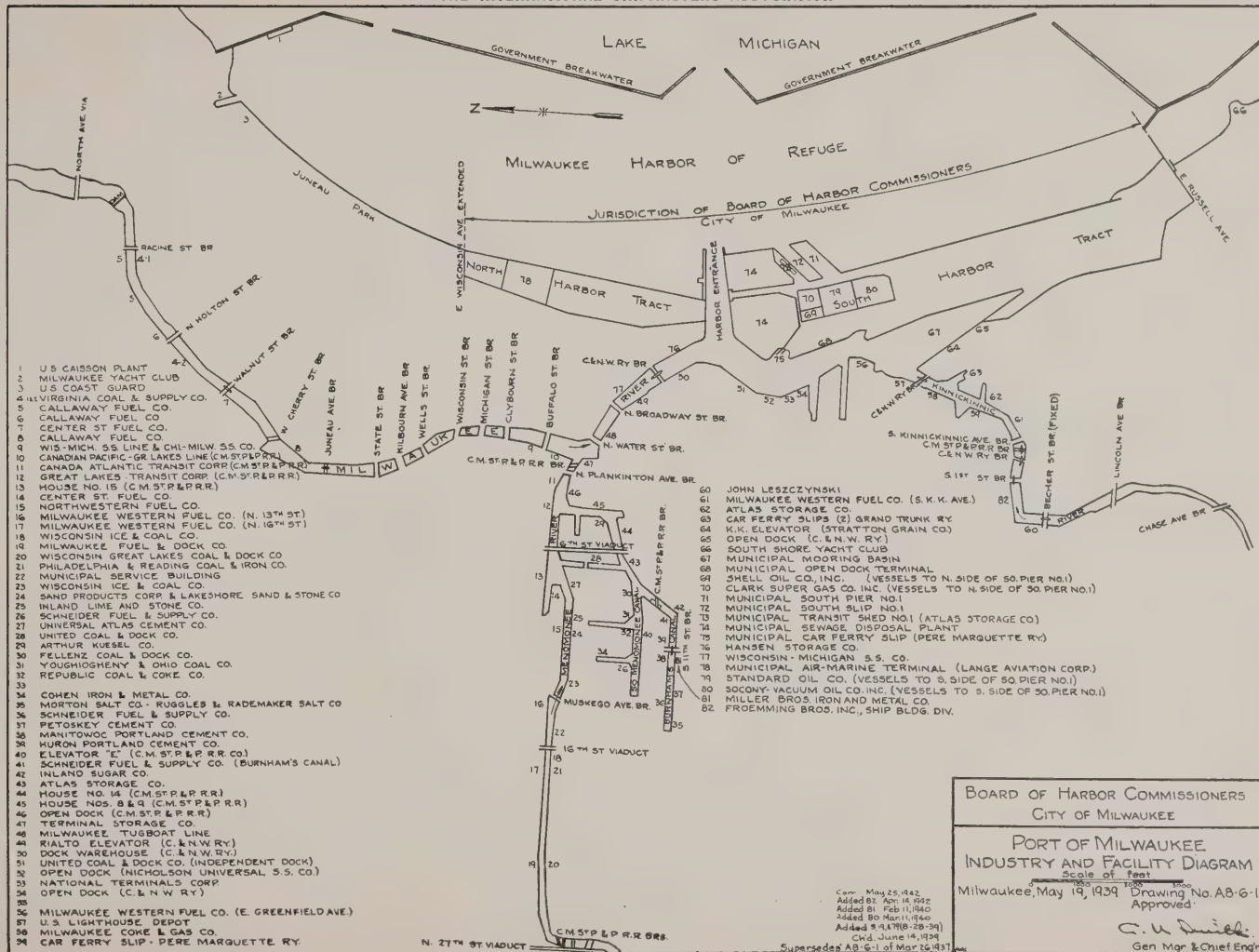
IN 2 SHEETS

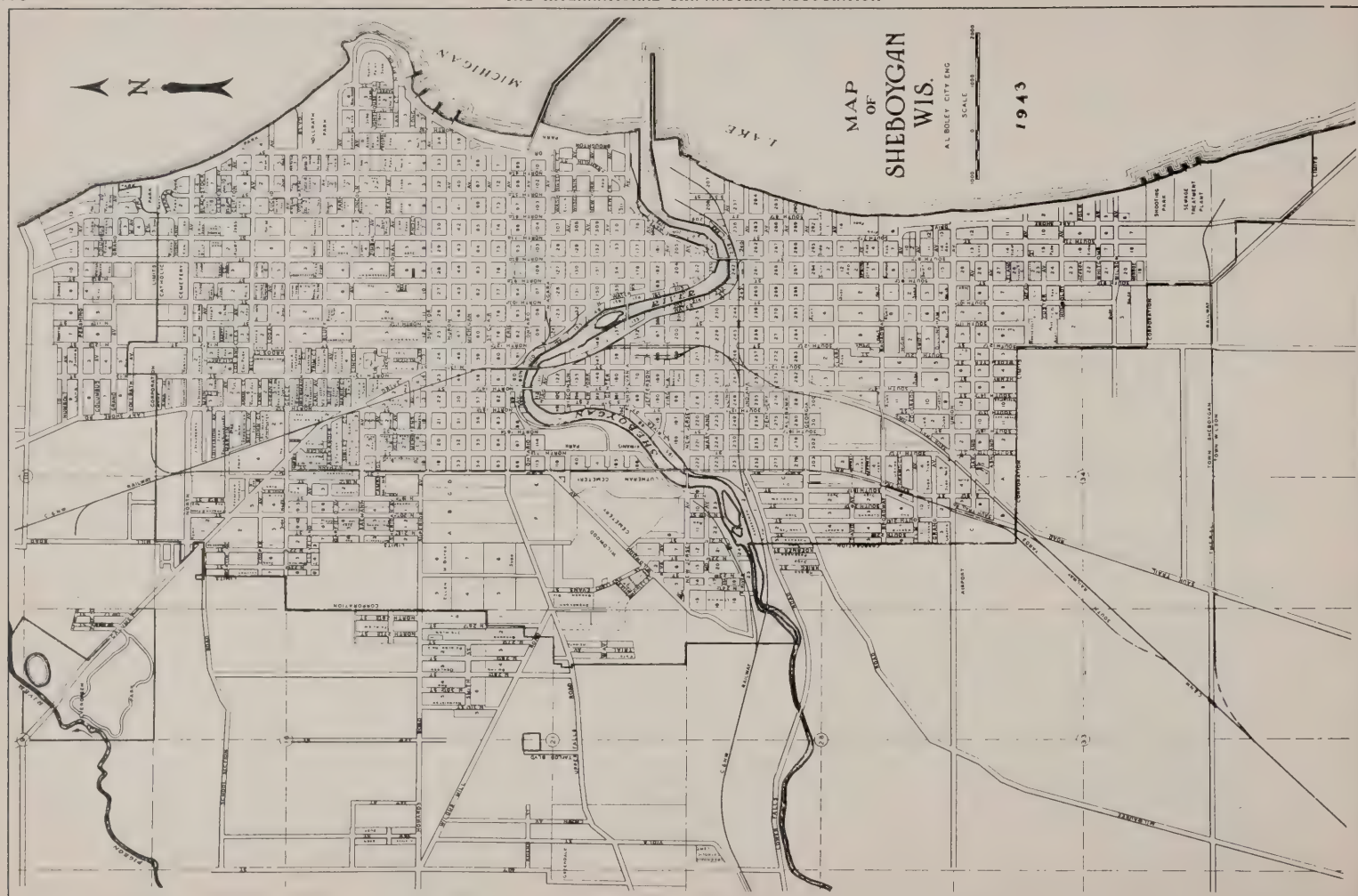
SHEET NO. 1

SCALE OF FEET

500 0 5 10 15 20 2500  
SCALE OF FEET  
CORPS OF ENGINEERS, MILWAUKEE, WIS.

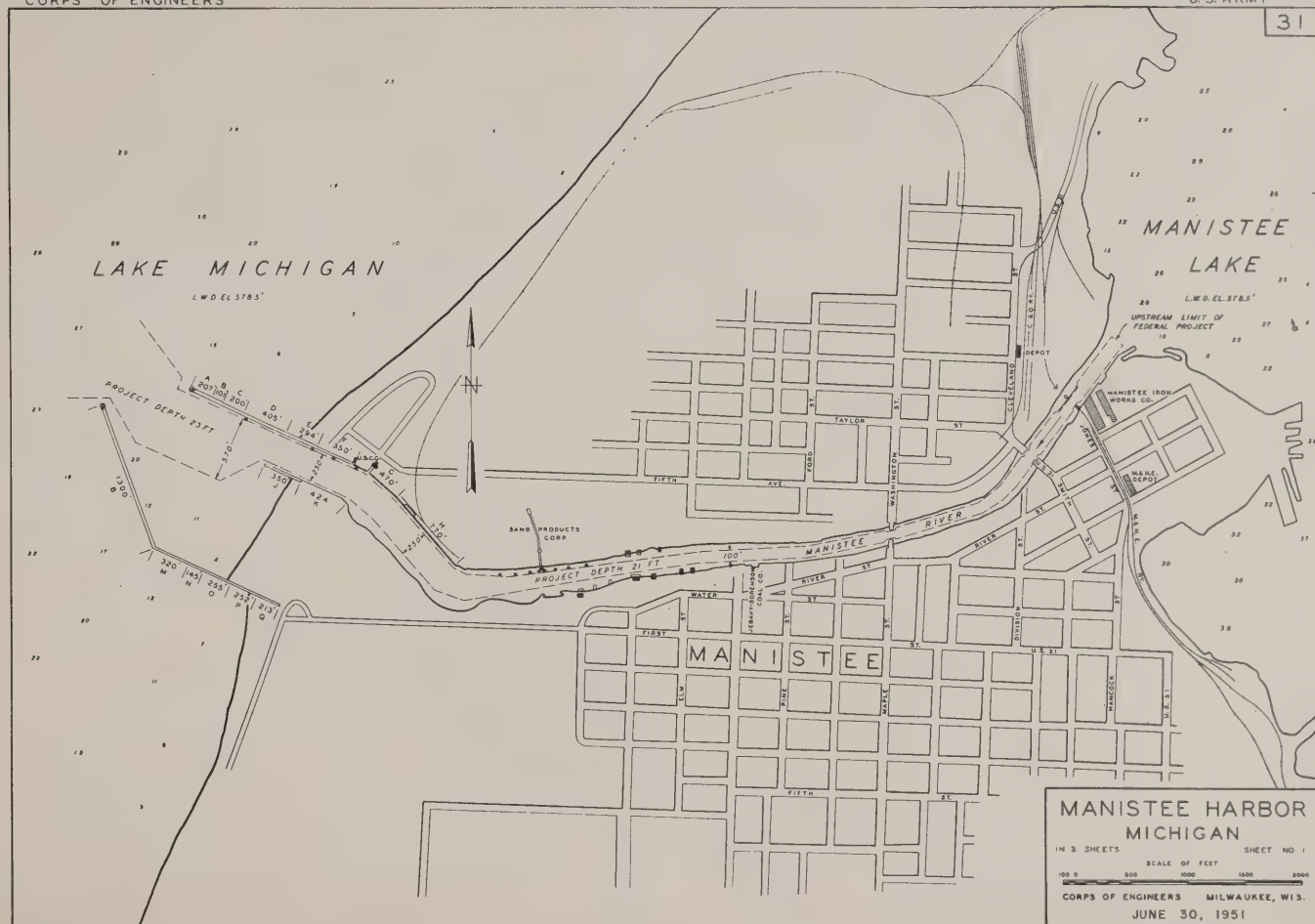
JUNE 30, 1950





CORPS OF ENGINEERS

U.S. ARMY

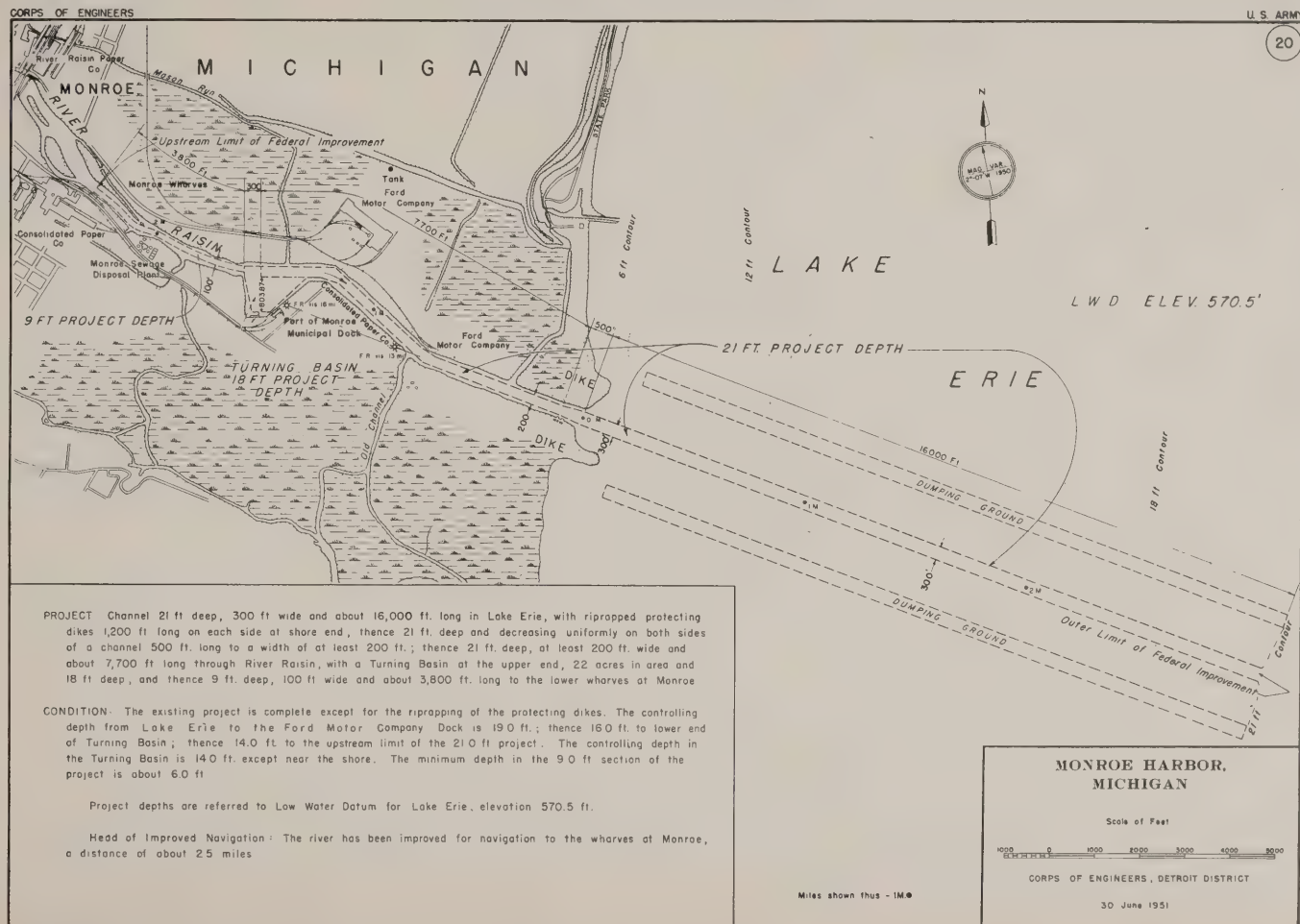












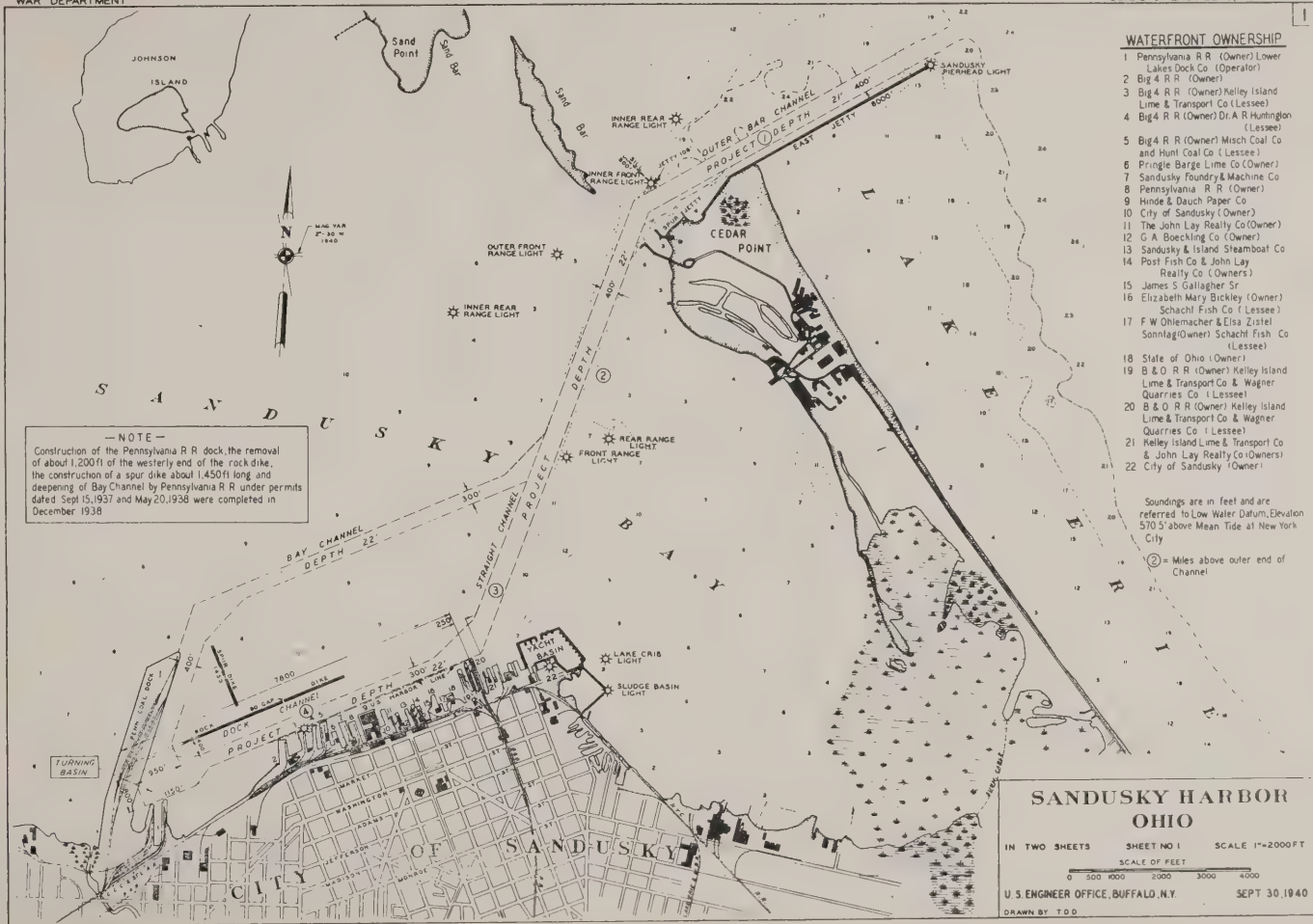


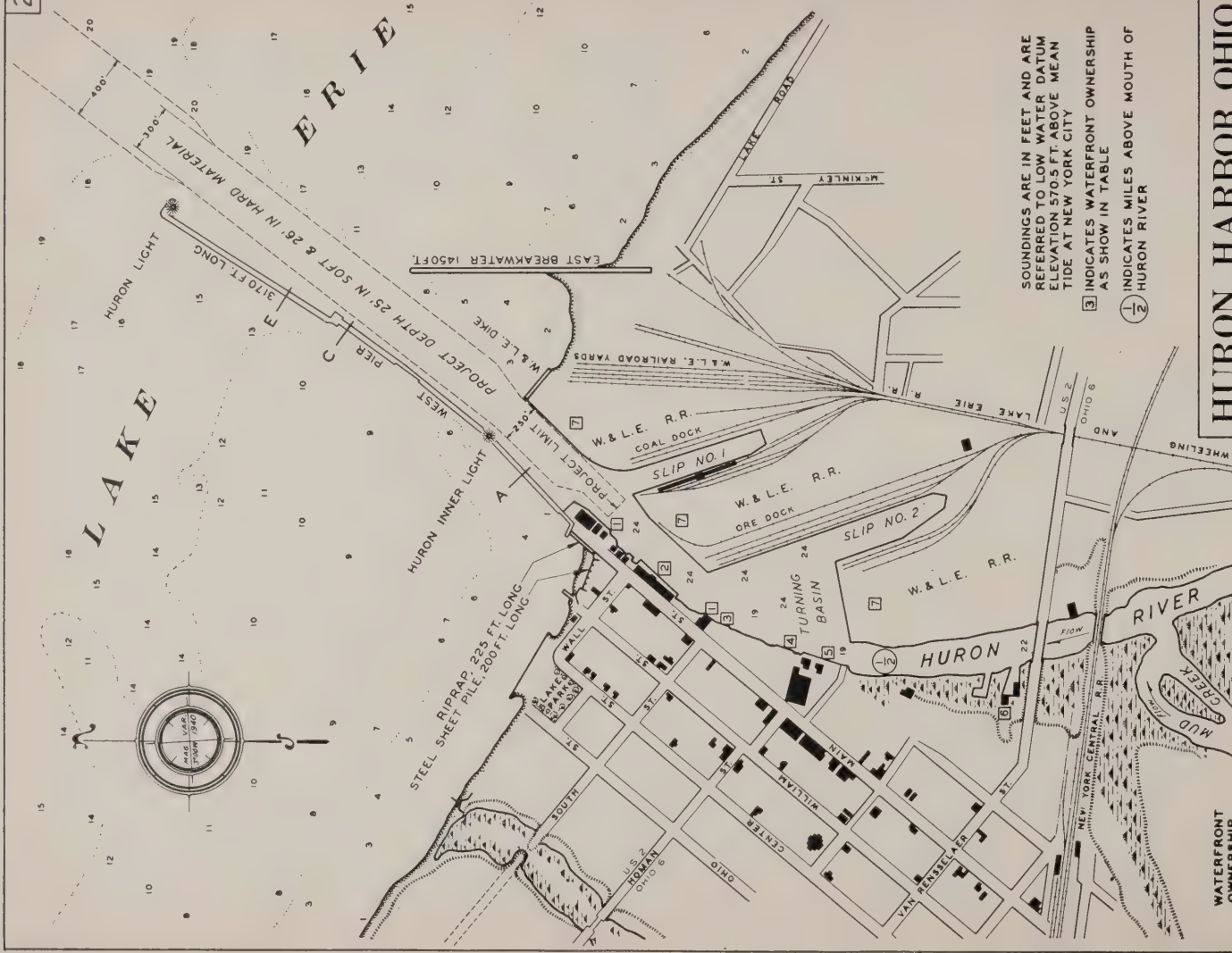


TOLEDO HARBOR

WAR DEPARTMENT

CORPS OF ENGINEERS, U.S. ARMY





SOUNDINGS ARE IN FEET AND ARE  
REFERRED TO LOW WATER DATUM  
ELEVATION 570.5 FT. ABOVE MEAN  
TIDE AT NEW YORK CITY

③ INDICATES WATERFRONT OWNERSHIP  
AS SHOWN IN TABLE

① INDICATES MILES ABOVE MOUTH OF  
② HURON RIVER

# HURON HARBOR, OHIO

IN 3 SHEETS SHEET NO. 1 SCALE 1:10,000

SCALE IN FEET



HEAD OF NAVIGATION IS  
MILAN, 10 MILES ABOVE  
MOUTH OF RIVER

## WATERFRONT OWNERSHIP

- 1 HURON FISH CO.
- 2 KISHMAN FISH CO.
- 3 MUNICIPAL DOCK
- 4 HYMAN R. LEVIN
- 5 VALENTINE FRIES ESTATE
- 6 LEE BOAT LIVERY
- 7 W.L.E. R.R.

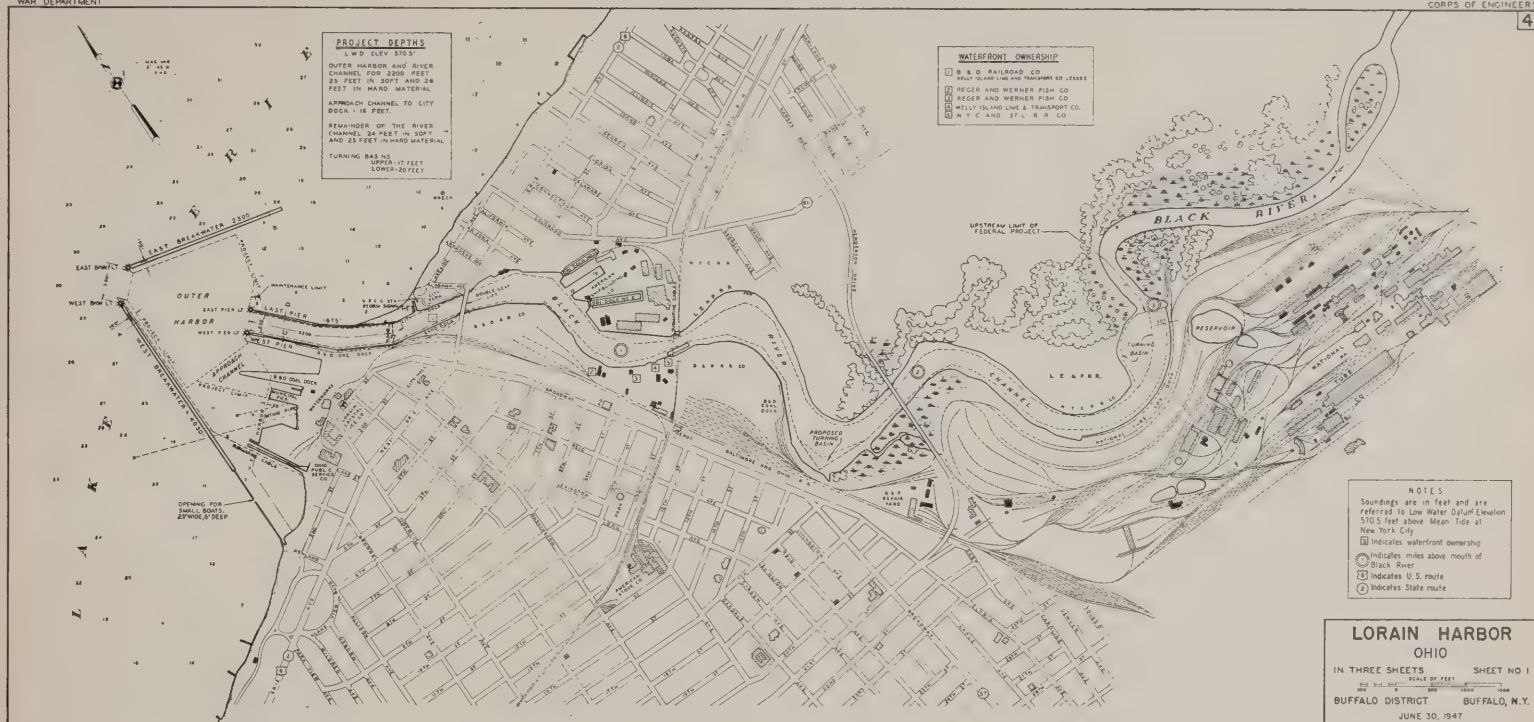
U.S. ENGINEER OFFICE, BUFFALO, N. Y. SEPT. 30, 1941

DRAWN BY: R.D.P.

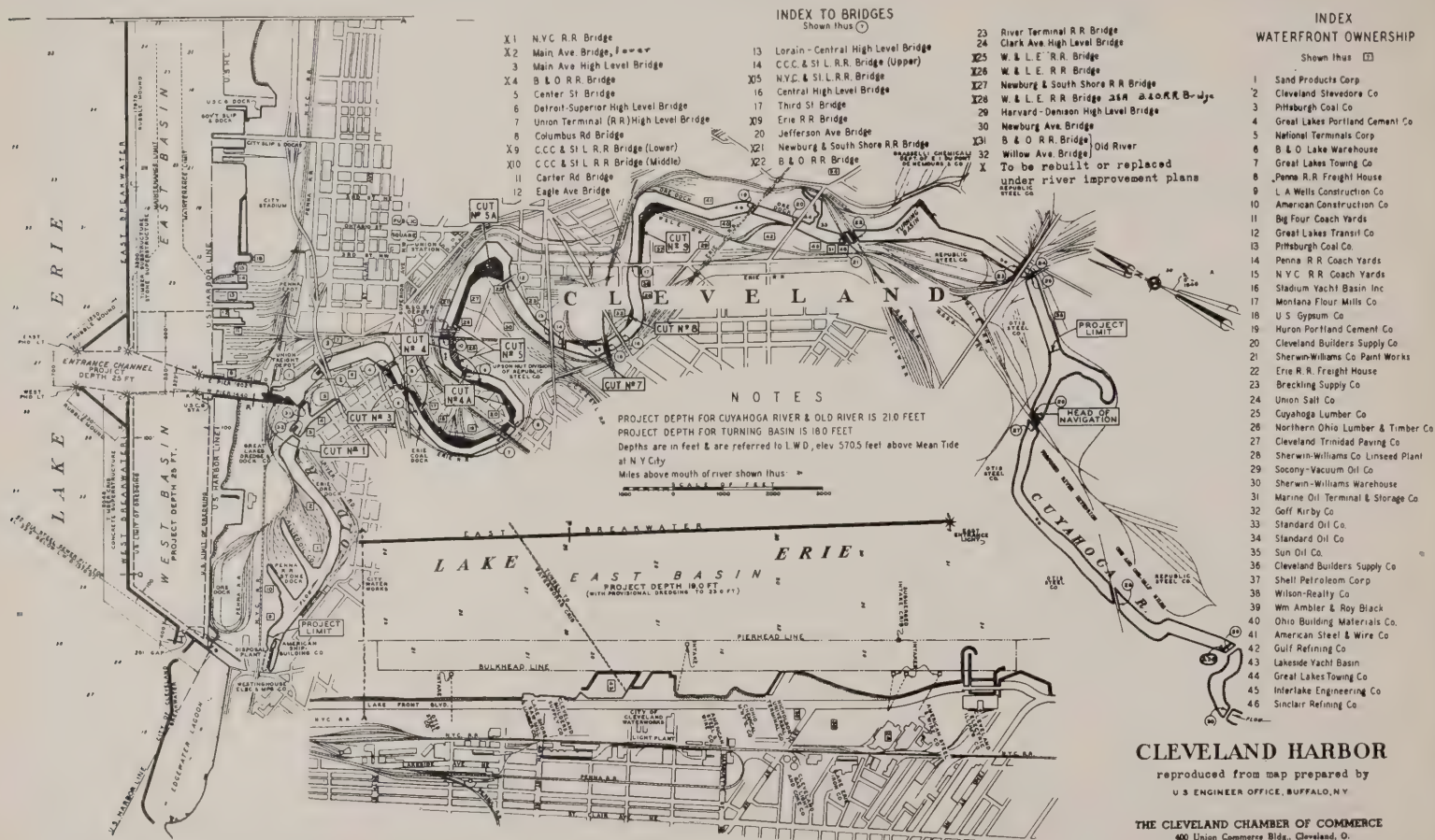
WAR DEPARTMENT

CORPS OF ENGINEERS

4

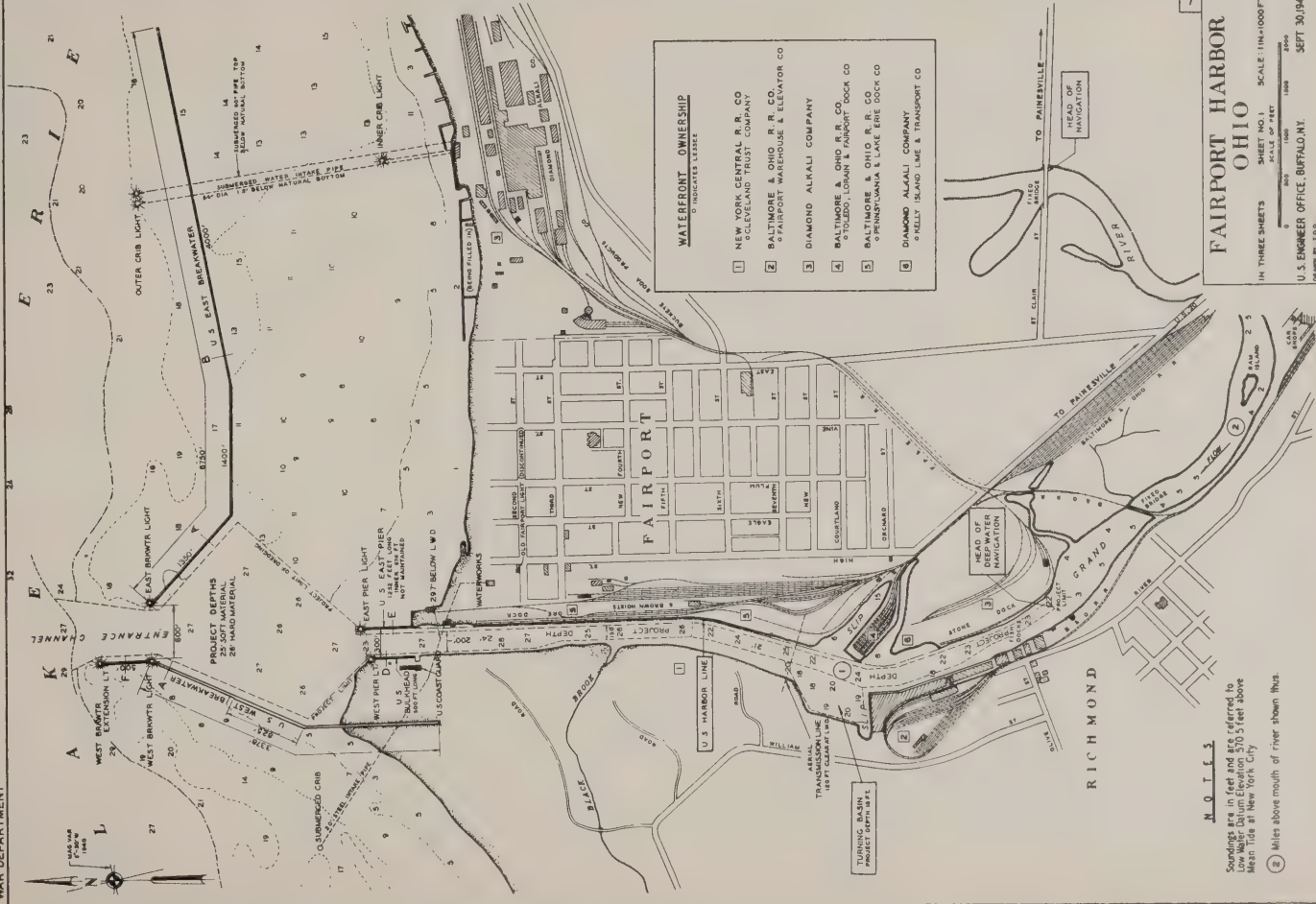






CORPS OF ENGINEERS, U.S. ARMY

WAR DEPARTMENT











WAR DEPARTMENT

CORPS OF ENGINEERS, U.S. ARMY

10

## WATERFRONT OWNERSHIP

1. ERIE, PITTSBURGH & N. LEASED BY PENNSYLVANIA R.R.
2. KELLEY ISLAND LINE & TRANSPORT CO. LEASED FROM PA. R.R.
3. ERIE & PITTSBURGH, N. LEASED BY PENNSYLVANIA R.R.
4. CITY OF ERIE WATERWORKS
5. KELLEY ISLAND LINE & TRANSPORT CO. LEASED FROM
6. W. H. WATSON, PARK, MILL, HUNTERD CO.
7. W. H. WATSON & CLEVELAND
8. C.M. REED ESTATE, LEASED BY MALPHI FISHERIES
9. MALPHI FISHERIES
10. CASE FISH CO. LEASED BY HOLBE FISH CO.
11. ERIE FISH CO.
12. DEERBECK & CHRISTIANSON
13. MARSHALL DAILY
14. CITY OF ERIE
15. SHAW FISH CO.
16. CASE ERIE FISH CO.
17. BENDER MARINE CO.
18. E. L. SCHENK & SONS CO.
19. UNION FISH CO.
20. PENNSYLVANIA GAS CO.
21. ERIE LIGHTING CO.
22. ERIE R.R.
23. J. C. KARANAUH
24. FRED S. BANNING
25. U.S. WILKINS ASSOCIATION
26. U.S. PACIFIC CO.
27. HENRY SHISLER, LEASED BY UNION FISH CO.
28. SHAW FISH CO.
29. POND JACKMAN, LEASED TO BAKELONA FISH CO.
30. ERIE LIGHTING CO. LEASED BY HADCO GAS & ELECTRIC CO.
31. PENNSYLVANIA R.R.
32. CITY OF ERIE SEWAGE DISPOSAL PLANT
33. GULF REFINING CO.
34. STATE OF PENNSYLVANIA

PROJECT DEPTHS SHOWN THUS — (20)

ALL DEPTHS REFERRED TO LOW WATER  
DATUM, ELEVATION 370.5 FEET ABOVE MEAN  
TIDE AT NEW YORK CITY. DEPTHS ARE IN FEET.





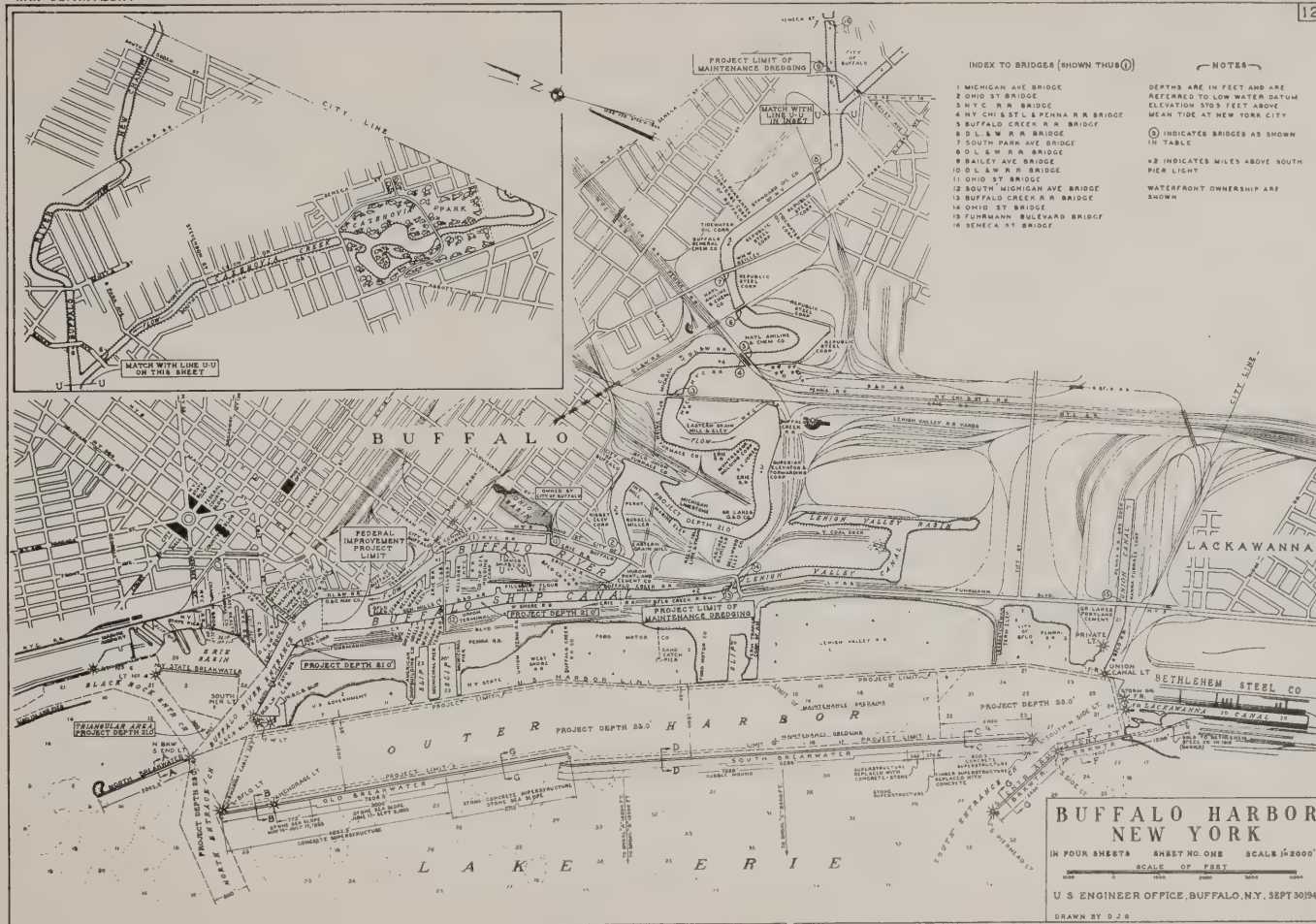




WAR DEPARTMENT

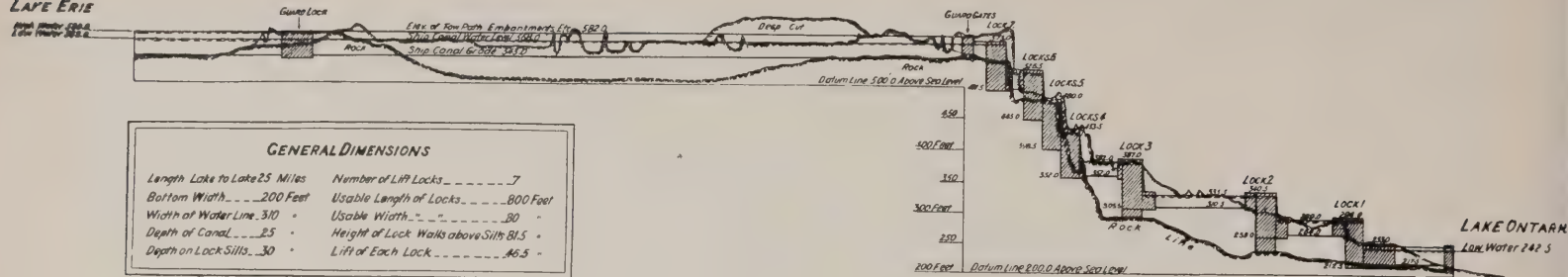
CORPS OF ENGINEERS, U S ARMY

12

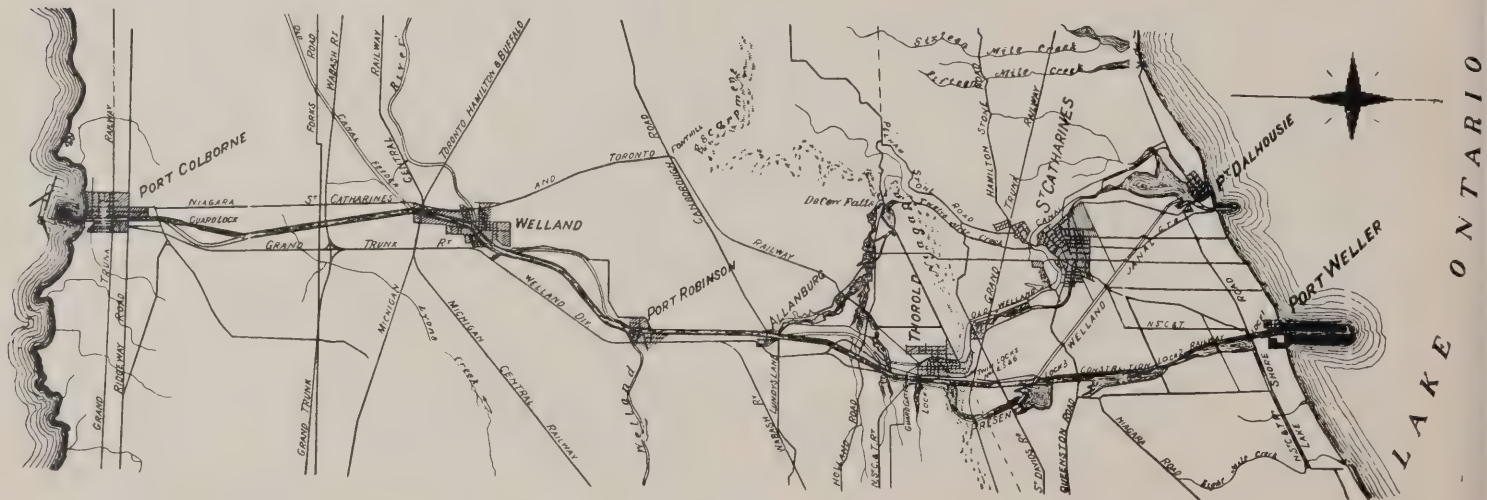




## LAKE ERIE



L A K E E R I E



## THE WELLAND SHIP CANAL

SCALE OF MILES

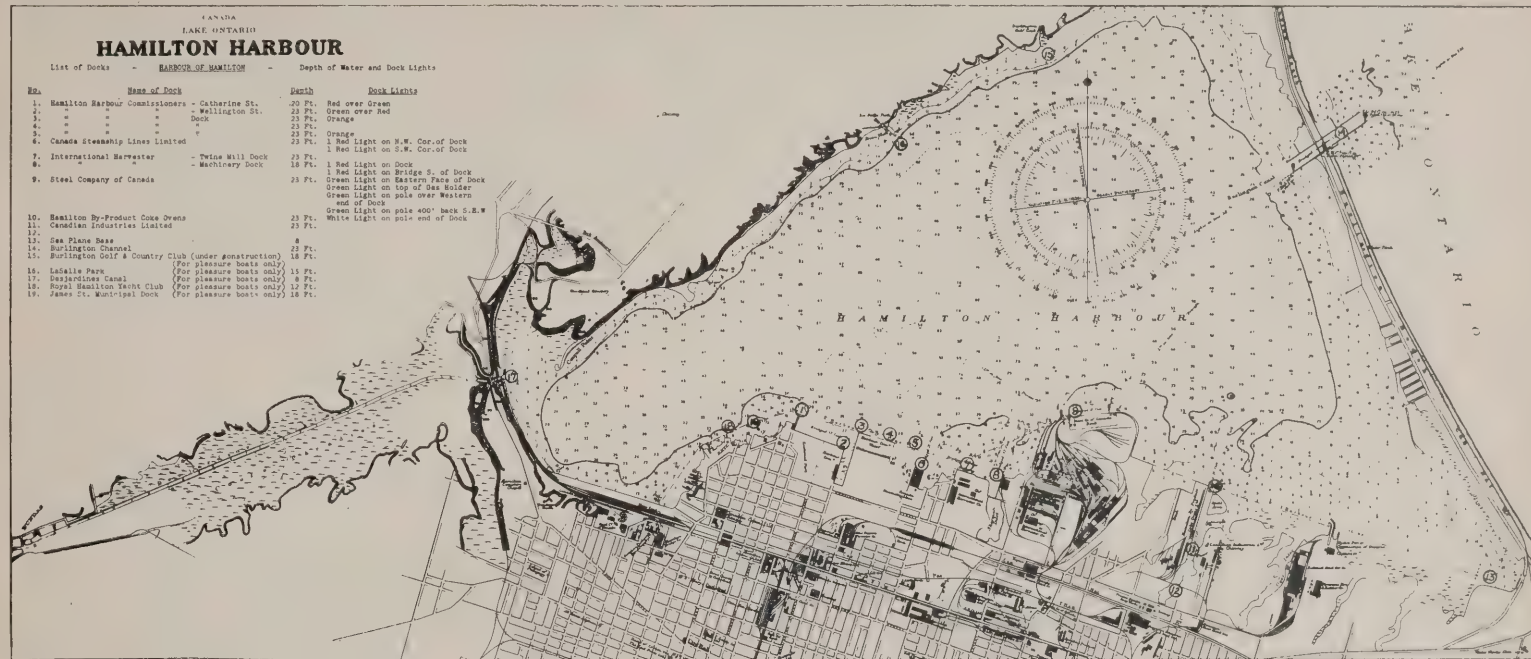


L A K E O N T A R I O

CANADA  
LAKE ONTARIO  
**HAMILTON HARBOUR**

List of Docks - HARBOR OF HAMILTON - Depth of Water and Dock Lights

ED.	Name of Dock	Depth	Dock Lights
1.	HAMILTON Harbour Commissioners - Catherine St.	20 Ft.	Red over Green
2.	" " - Wellington St.	23 Ft.	Green over Red
3.	" " - Dock	23 Ft.	Orange
4.	" " - "	23 Ft.	"
5.	" " - "	23 Ft.	"
6.	Canada Steamship Lines Limited	23 Ft.	Orange
7.	International Harvester - Twine Mill Dock	23 Ft.	1 Red light on S.W. Cor. of Dock
8.	" " - Machinery Dock	18 Ft.	1 Red light on S.W. Cor. of Dock
9.	Steel Company of Canada	23 Ft.	1 Red light on Dock 1 Red light on Bridge S. of Dock Green light on Eastern Pans of Dock Green light on top of Gas boiler Green light on pole over Western end of Dock
10.	HAMILTON By-Product Coke Ovens	23 Ft.	Green light on pole 400' back S.E.W.
11.	Canadian Industries Limited	23 Ft.	White light on pole end of Dock
12.	" " - "	23 Ft.	"
13.	Gas Plant Base	8	"
14.	Burlington Channel	23 Ft.	"
15.	Burlington Golf & Country Club (under construction)	18 Ft.	"
16.	Laballe Park	11 Ft.	(For pleasure boats only)
17.	Desjardins Canal	8 Ft.	(For pleasure boats only)
18.	Royal Hamilton Yacht Club	12 Ft.	(For pleasure boats only)
19.	James St. Municipal Dock	18 Ft.	(For pleasure boats only)





By Permission of  
THE TORONTO HARBOR  
COMMISSION

- 1—Canada Malting Co., Ltd.
- 2—Harbour Brick Co., Ltd.
- 3—Dufferin Paving & Crushed Stone, Ltd.
- 4—Warren Bituminous Paving Co., Ltd.
- 5—Hamilton Bridge Co., Ltd.
- 6—Kilmer Gibson & Van Nostrand.
- 7—Dominion Government Dock.

- 8—S. McCord & Co., Ltd.
- 9—Toronto Elevators, Ltd.
- 10—City of Toronto Marine Yard.
- 11—Life Saving Station.
- 12—Tree Line Navigation Co.
- 13—Northwest Navigation Co.
- 14—Canadian Rail & Harbour Terminals Ltd.

- 15—Canadian National Steamship Lines.
- 16—Harbour Commissioners' Freight Shed.
- 17—Canada Steamship Lines, Ltd.
- 18—Canada Steamship Lines, Ltd.
- 19—Canada Steamship Lines, Ltd.
- 20—Gooderham & Worts, Ltd.
- 21—National Iron Corp'n, Ltd.
- 22—The Toronto Harbour Commissioners' Freight Sheds.
- 23—British American Oil Co., Ltd.
- 24—Toronto Drydock Co.
- 25—Russell Construction Co.

- 26—The Toronto Harbour Commissioners' Marine Yard.
- 27—Milnes Coal Co., Dock.
- 28—Canada Steamship Lines Coal Dock.
- 29—Century Coal Co., Dock.
- 30—Canada Coal Co., Dock.
- 31—Milnes Coal Co., Dock.
- 32—McColl-Frontenac Oil Co.
- 33—Canada Cement, Ltd.
- 34—Toronto Fuels, Ltd.—Coal Dock.
- 35—Dominion Boxboards, Ltd.
- 36—Weaver Coal Co., Dock.
- 37—McColl-Frontenac Oil Company
- 38—Nesbitt Thompson.
- 39—Imperial Oil, Ltd.
- 40—Standard Timbers, Ltd.
- 41—Sun Oil Company.
- 42—Harbour Coal Co., Dock.
- 43—Harbour Petroleum.
- 44—Canadian Paperboard Co., Ltd.
- 45—Shell Oil Co., Ltd.
- 46—Public Dock.
- 47—Canadian Dredging Co., Ltd.
- 48—Weaver Coal Company.
- 49—Standard Fuel Co.—Coal Dock.





## TONNAGE EXPLAINED

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There are five kinds of tonnage in use in the shipping business. They are deadweight tonnage, cargo tonnage, gross, net and displacement tonnage.

**1. DEADWEIGHT TONNAGE** expresses the number of tons of 2,240 pounds that a vessel can transport of cargo, stores, and bunker fuel. It is the difference between the number of tons of water a vessel displaces "light" and the number of tons it displaces when submerged to the "load water line". Deadweight tonnage is used interchangeably with deadweight carrying capacity. A vessel's capacity for weight cargo is less than its total deadweight tonnage.

**2. CARGO TONNAGE** is either "weight" or "measurement". The weight ton in the United States and in British countries is the English long or gross ton of 2,240 pounds. In France and other countries having the metric system a weight ton is 2,204.6 pounds. A "measurement" ton is usually 40 cubic feet, but in some instances a larger number of cubic feet is taken for a ton. Most ocean package freight is taken at weight or measurement (W/M), ship's option.

**3. GROSS TONNAGE** applies to vessels, not to cargo. It is determined by dividing by 100 the contents, in cubic feet, of the vessel's closed-in spaces. A vessel ton is 100 cubic feet. The register of a vessel states both gross and net tonnage.

**4. NET TONNAGE** is a vessel's gross tonnage minus deductions of space occupied by accommodations for crew, by machinery for navigation, by the engine room and fuel. A vessel's net tonnage expresses the space available for the accommodation of passengers and the stowage of cargo. A ton of cargo, in most instances occupies less than 100 cubic feet; hence the vessel's cargo tonnage may exceed its net tonnage, and, indeed, the tonnage of cargo carried is usually greater than the gross tonnage.

**5. DISPLACEMENT** of a vessel is the weight, in tons of 2,240 pounds, of a vessel and its contents. Displacement "light" is the weight of the vessel without stores, bunker fuel, or cargo. Displacement "loaded" is the weight of the vessel, plus cargo, fuel, and stores.

For a modern freight steamer the following relative tonnage figures would ordinarily be approximately correct:

Net Tonnage .....	4,000
Gross Tonnage .....	6,000
Deadweight Carrying Capacity .....	10,000
Displacement Loaded, About .....	13,350

A vessel's registered tonnage, whether gross or net, is practically the same under the American rules and the British rules. When measured according to the Panama or Suez tonnage rules, most vessels have larger gross and net tonnages than when measured by British or American national rules.

## SEICHES IN LAKE ERIE

Seiches in Lake Erie are of two general types, one that of the sudden and short-period tilting of the water surface upward toward the eastern end of the Lake and downward at the western end. Thunderstorms and sudden squalls appear to combine with quick changes in atmospheric pressure and produce these and they are therefore most difficult to foretell. However, they are of only a few hours duration as a rule.

The other type is the consistent tilting which develops in a period of several hours and may continue, with minor fluctuations, for two or three days. Such seiches cause low water in the upbound channel in the Detroit River and high water at Buffalo. They are caused chiefly by the windflow from SW to NE when such flow is fairly strong and sustained. Winds of other directions are not effective in creating serious seiches in this respect, although the northeast wind system occasionally produces seiches which lower the eastern and raise the western end of the Lake to a dangerous degree; northeast "blows" are generally of shorter duration than the "southwesters" and the seiches are less pronounced. The direction here described is that of the wind over the open reaches of Lake Erie.

While wind and possibly barometric pressure are the main causes for the primary seiches of both kinds, it has been found by carefully examining the records of lake water surface that the water in Lake Erie "rocks" back and forth several times once it is tilted and the cause of the tilting declines. This "rocking" is about 15 hours in completing a whole cycle of changes; in other words once impelled to the eastern end of the Lake the water will tend, if the impelling force is relaxed, to re-

turn to the western end of the Lake for about 7 hours and then reverse this movement for the next 7 hours or so. These rockings may be two or three in number and seem to be always going on sometimes being added to the rockings due to wind and pressure. While it is not a wholly reliable indication, it is well to look for a rise of water at Bar Point about 7½ hours after the lowest water there was noted, except when the wind has increased from the southwest and the "rocking" is thus impeded by the freshening wind.

Distances in Statute Miles Between Selected Ports on  
The Great Lakes

Between and	Duluth, Minn.	Sault Ste. Marie	Milwaukee Wis.	Chicago, Ill.	Port Huron, Mich.	Detroit, Mich.	Cleveland, Ohio	Erie, Pa.	Buffalo, N. Y.	Oswego, N. Y.
Duluth, Minn.	—	394	743	808	664	726	833	917	986	1140
Sault Ste. Marie	394	—	349	414	269	331	438	522	592	745
Milwaukee, Wis.	743	349	—	85	506	568	675	759	828	982
Chicago, Ill.	808	414	85	—	571	633	740	824	893	1047
Port Huron, Mich.	664	269	506	571	—	62	170	253	322	477
Detroit, Mich.	726	331	568	633	62	—	108	191	261	415
Cleveland, Ohio	833	438	675	740	170	108	—	102	176	331
Erie, Pa.	917	522	759	824	253	191	102	—	78	236
Buffalo, N. Y.	986	592	828	893	322	261	176	78	—	193
Oswego, N. Y.	1140	745	982	1047	477	415	331	236	193	—

## GOVERNMENT BUREAUS ASSISTING NAVIGATION

"The U. S. Coast Guard publishes the Light List for the Great Lakes. This list, published annually, describes all aids to navigation and fog signals maintained by or under the authority of the United States Coast Guard and the Dominion of Canada on the Great Lakes and the St. Lawrence River above St. Regis River. In this Light List there is also included, at the end, a list of unlighted buoys and day beacons in the United States waters.

This list is available for sale at the 9th Coast Guard District, 1700 Keith Building, Cleveland 15, Ohio. The price is one dollar, (\$1.00) per copy and payment should be tendered by money order, postal note or bankable check made payable to the TREASURER OF THE UNITED STATES. Postage stamps cannot be accepted in payment.

Local Notices to Mariners are issued by the Commander, 9th Coast Guard District, Cleveland, Ohio, and the Commanding Officer, Coast Guard Base, Sault Ste. Marie, Michigan, and include day to day changes and deficiencies in aids to navigation on the Great Lakes. These notices may be obtained, free of charge, by making application to the Commander, 9th Coast Guard District, Keith Building, Cleveland 15, Ohio, indicating specifically the nature of need".

The U. S. Lake Survey: The most important service of the U. S. Lake Survey is the publication of an excellent series of charts of all Great Lakes Waters.

In addition to the surveys conducted for charting purposes, the U. S. Lake Survey issues an annual bulletin giving the latest information regarding the Great Lakes. During the season of navigation monthly supplements are issued giving all important changes in channels and harbors affecting navigation, occurring during the preceding month. Masters should see that their ship is on the mailing list to receive the annual bulletin and the supplement.

The catalog lists the places at which charts may be obtained including the U. S. Lake Survey Office at Detroit and the Sault Canal.

The U. S. Engineering Department: The dredging in harbors and channels is in charge of the Corps of Engineers, U. S. Army, having district offices at Chicago, Milwaukee, Duluth, Detroit and Buffalo. These offices also have to do with the removal of wrecks and other

obstructions and give out information regarding these matters through the U. S. Lake Survey Bulletin, supplements and the notices to mariners issued by the Lighthouse Service and by the U. S. Hydrographic office of the Navy Department.

The Hydrographic Office of the Navy Department has six Branch Offices located on the Great Lakes. These offices specialize in distributing to shipmasters and other interested parties information affecting navigation received from other offices and Masters.

The Branch Offices issue "Local Hydrographic Memorandum for Mariners" as often as necessary covering local areas at Buffalo, Cleveland, Chicago, Detroit, Duluth, and Sault Ste. Marie.

In addition to the "Local Hydrographic Memorandum for Mariners", Headquarters Lakes Division located at Cleveland publishes and distributes a weekly "Notice to Mariners" covering all the Great Lakes, and annually publishes and distributes the "Radio Aids to Navigation, Great Lakes".

All of the Branch Offices except Cleveland conduct navigation classes during the winter months, and personnel at all offices are ready to assist mariners at all times.

The U. S. Coast Guard: Constitutes the Marine Police Force, but its service is very helpful under ordinary operations and especially at times when special hazards exist or in case of serious accident to the ship. This service issues regulations on the navigation of the St. Marys River and sees that they are adhered to through the several Coast Guard Stations and the small motor boats patrolling the river.

The U. S. Weather Bureau collects and disseminates weather information for the Great Lakes area. Weather observations are secured from numerous lake shore locations as well as from ships plying the lakes. Daily weather maps are prepared at 17 Offices. Forecast service is centered at the Chicago Weather Bureau Office, from whence originate the forecasts disseminated from other Weather Bureau Offices and by means of radiotelephone and radiotelegraph broadcasts. As part of the forecasting service visual storm warning displays are made at important harbors and anchorages during the navigation season. Surveys of ice conditions in channels and harbors are summarized in weekly or more frequent bulletins distributed to shipping interests from early in March until ice ceases to be a hazard.



## SOME COMMENTS ON GREAT LAKES STORMS

The great storms of North America usually follow a course of travel coming over or near the Great Lakes. The high winds and rains or snows which are called storms are parts of great atmospheric motions. Much of the causes and controls of these motions is at present a matter of obscurity. It is known, however, that the general storms of our Lakes may be called revolving atmospheric "lows", even though they are not entirely circular in many instances. At the center of such a "low" or storm the barometer is depressed deeply, the readings (sea level) on many occasions reaching 29 inches. From these low pressure systems and their related weather conditions, most of the modern forecasting of storms is developed. Balancing these "lows" in a degree, and normally alternating with them in travel over the temperate zones are high pressure areas and systems seldom circular and rarely stormy. With many deviations the surface winds flow indirectly but systematically from high to low. The height of the high and the depth of the low regulate the rate of such flow, thus determining the strength of the wind.

Barometers show pressure values and an observer having a good barometer properly set may utilize its readings and changes along with observations of the wind direction and velocity and their changes to estimate the locations and movement of pressure systems and the march of storms. A set of general rules is printed on Page 363.

Storms follow certain tracks and have certain "habits", based chiefly on supplies of air which will provide the necessary warmth and moisture. While it is a weather adage that all storm roads lead to the St. Lawrence Valley from all over North America, it is more likely that they are attracted by the vast reaches of moisture in the Great Lakes and in at least two thirds of the year by the comparative warmth.

From the mariners' viewpoint, Great Lakes weather is of interest from early April to mid-December, the season of active shipping. April and May are months during which storms are tending to avoid the Great Lakes to some degree, as a result of the winter-chilled lake temperatures, but occasionally the storms of that period cross the Lake and are severe and of extra persistence, generated by the masses of intense cold which lie over the interior of Canada opposed to the newly warmed air masses of United States, the Lakes lying roughly between these extremes. Easterly winds may dominate the whole area of the Great Lakes during this period and snow, sleet and rain attend these in many cases.

June, July, August and early September are generally mild in storminess. This is a period during which the waters of the Lakes are being warmed slowly but are usually cooler than the average land

temperatures around them. Foggy nights are the rule whenever this difference in temperature is large and winds are light.

Local summer thunderstorms stir up high winds in limited areas and these winds are sometimes able to produce large and sudden fluctuations of lake levels. They are most active in June and July.

Sometimes in September, but occasionally as late as early October, storminess increases as the "lows" begin a seasonal gain in intensity, and the general tendency then is one of strengthened west winds. By early December the Lakes reach their period of greatest storminess as cold air masses pile up to the north of the Lakes and warm conditions are driven further and further southward.

These "lows" or storms, have certain tendencies that have been observed to recur and therefore may be called habits. Some of these are fairly well adhered to and others are violated rather often, but the observer with his barometer and wind observations may often be able to see and foresee some of the habits or their breakdowns and thus better plan his course of action on board ship.

Lows which move (their centers) toward the north are intensifying. They may make eastward travel while moving northward but the measure of northward movement is a fair gage of their severity. As their intensity develops their rate of travel speeds up and the barometric pressure at the center is lowered. Such storms transport with them great masses of warm and moist air often of far south origin and rain or snow falls associated with them are likely to be heavy. The winds may be heaviest on one side only, while lighter on the other, but as they may pass directly over the Great Lakes most locations on the Lakes are whipped by high winds and may be suddenly subjected to quick windshifts.

The usual travel direction of movement for lows is toward the east or northeast and the rate may vary from 200 to 500 miles per day. With normal movement and speed the storms attending these lows are fairly intense. Sometimes lows move toward the southeast and reach us from Canada. Under these circumstances, they are relatively mild and slow-moving although in the fall and summer, warmed lakes often provide new energy and turn them toward the northeast. Such lows slow up over the lakes and linger just east or northeast of the Lake Region promoting the familiar snowsqually westerly wind weather of the fall and early winter. At times, a low which originated as a hurricane in the southern seas advances in subdued form over the inland reaches of our country and then revives its former energy as it moves toward the lakes. These are fall and early winter storms and because of the rapid movement and sudden increase in severity they are entitled to such respect of weather men and mariners on the Lakes as are no other storms.



## FREEBOARD

Freeboard is the height of the top of the deck at the side above the water line.

Minimum freeboards or maximum load lines have been established by law throughout the world. Special freeboard laws, applying to Great Lakes vessels of 150 gross tons or over are required to have established maximum load lines.

Load lines are determined by regulations and are assigned by the American Bureau of Shipping, Lloyd's Register of Shipping, or other approved assigning authorities.

Load line inspections are made annually.

A load line certificate is issued to each vessel. Surveys are made at least once every five years and the certificate is accordingly renewed

Three marks are placed on each side of vessel, determining the load lines as follows.

SUMMER	May 16 — Sept. 15
	April 16 — May 15
INTERMEDIATE	Sept. 16 — Oct. 31
WINTER	Nov 1 — April 15

The freeboard mark for Great Lakes vessels is known as the "Load-line Diamond".

It is to be center punched on each side of steel ships. Marks are to be white or yellow on a dark ground or black on a light ground. The initials of the assigning authority appear on the mark, Viz. A-B or L-R.

## LOADING AND UNLOADING RECORDS ON THE GREAT LAKES TEST RECORD OF IRON ORE LOADING

D. M. & I. R. Ry. dock, Two Harbors, Sept. 7, 1921—Steamer D. G. Kerr, 13,689 gross 12,508 gross tons in 16½ minutes; a rate of 758.06 tons per minute; 45,843--2/3 tons per hour; 1.32 minutes per 1,000 tons.

### IRON ORE LOADING IN REGULAR COURSE OF THE TRADE

D. M. & I. R. Ry. dock, Duluth, July 15, 1919—Steamer D G Kerr, 12,689 gross tons in 30 minutes, actual loading time; a rate of 25,378 tons per hour.

### IRON ORE UNLOADING

Pittsburgh & Conneaut dock, Conneaut, Ohio, August 27, 1940—For "best dispatch in and out," steamer Wm. A. Irvin, 13,856 gross tons, railroad weight in 2 hours, 55 minutes from time of arrival until light; a rate of 4,750 gross tons per hour; 12¾ minutes per 1,000 tons.

Pittsburgh & Conneaut dock, 1930—For fastest "machine time," steamer J. Pierpont Morgan, 11,369 gross tons railroad weight, in 2 hours, 15 minutes; a rate of 4,953 tons per hour; 12 minutes per 1,000 tons.

Pittsburgh & Conneaut dock, June 15, 1929—For bill of lading weight, steamer Henry H. Rogers, 11,943 gross tons in 2 hours, 25 minutes; a rate of 4,942 tons per hour.

### LOWER LAKES UNLOADING AND LOADING RECORD

Pittsburgh & Conneaut dock, July 9, 1931—Steamer Wm. B. Schiller unloaded 10,296 gross tons of ore in 4 hours, 10 minutes; loaded 11,293 net tons of soft coal and 250 tons of fuel in 3 hours, 30 minutes. Total working time, 7 hours, 40 minutes; total cargo handled 23,074 net tons, a rate of 3,010 net tons per hour.

### UPPER LAKES UNLOADING AND LOADING RECORD

D. M. & I. R. docks, Duluth, September 26, 1939—Steamer Homer D. Williams unloaded 11,494 gross tons of limestone in 6 hours, 50 minutes; loaded 12,922 gross tons of iron ore in 2 hours, 45 minutes; total 9 hours, 35 minutes' actual operating time. Total cargo handled 24,416 gross or 27,346 net tons; a rate of 1,682 gross tons per hour for limestone unloaded; 4,698-3/5 gross tons per hour for ore loaded and combined a rate of 2,547½ tons per hour for 24,416 gross tons of cargo handled in a single day.

### COAL LOADING

Pittsburgh and Conneaut dock, July 9, 1931—Steamer Wm. B. Schiller 11,293 net tons of cargo and 250 tons of fuel in 3 hours, 30 minutes; a rate of 3,298 tons per hour.

### COAL UNLOADING

Berwind dock, West Duluth, August 31, 1921—Steamer Joseph Wood, 10,843 net tons of soft coal in 6 hours, 48 minutes; a rate of 1,594½ tons per hour.

### LIMESTONE LOADING

Alpena, Mich., June 26, 1926—Steamer Conneaut, 7,145 net tons in 38 minutes; a rate of 10,114-4/5 tons per hour.

### LIMESTONE UNLOADING

Buffington, Ind., August 9, 1928—Steamer Carl D. Bradley, 15,633 gross tons with self-unloading equipment in 5 hours, 21 minutes; a rate of 2,922 gross tons per hour.

### WHEAT LOADING

Pool Terminal Elevator, Port Arthur, Ont., July 7, 1932—Steamer G. A. Tomlinson, 302,000 bushels in 1 hour, 55 minutes; a rate of 2,626 bushels per minute. 157,565 bushels, or 4,727 net tons per hour.

### WHEAT UNLOADING

Terminal Elevator, Buffalo, 1917—Steamer Shenango, 451,382 bushels, or 13,541 net tons in 15 hours; a rate of 30,092 bushels per hour.

### CORN LOADING

North Western Elevator, Chicago, June 7, 1939—Steamer Taurus, 238,000 bushels in 1 hour, 35 minutes; a rate of 2,505-1/4 bushels per minute, 150,315 bushels per hour.

### RYE UNLOADING

Buffalo, 1922—Steamer John Dunn, Jr., 370,000 bushels in 7 hours; a rate of 53,000 bushels per hour.

## BITUMINOUS COAL TRAFFIC

Great Lakes, Years 1928 to 1951, Inc.

(In Short Tons)

Year	Shipments from Lake Eric Ports	Shipments from Lake Ontario Ports	Total Shipments from Lower Lake Ports
1928	33,372,700	1,319,622	34,692,322
1929	37,936,318	1,707,623	39,643,941
1930	36,838,498	1,352,956	38,191,454
1931	30,435,505	814,248	31,249,753
1932	23,365,994	587,057	23,953,051
1933	29,402,677	613,232	30,015,909
1934	34,429,410	722,609	35,152,019
1935	34,402,337	606,759	35,009,096
1936	43,501,588	711,149	44,212,737
1937	43,285,849	1,244,408	44,530,257
1938	34,172,963	874,691	35,047,654
1939	39,836,786	1,359,865	41,196,651
1940	46,547,987	1,969,645	48,517,632
1941	49,733,234	2,832,929	52,566,163
1942	47,814,592	3,624,256	51,438,848
1943	46,059,334	3,998,770	50,058,104
1944	53,981,331	3,173,566	57,154,897
1945	49,901,311	3,011,915	52,913,226
1946	48,250,802	2,763,630	51,014,432
1947	51,050,532	3,851,029	54,901,561
1948	55,197,842	3,901,209	57,099,051
1949	35,876,853	2,260,647	38,137,500
1950	50,324,195	3,939,633	54,263,828
1951	42,347,198	4,200,724	46,547,922

## TRIP CAPACITY OF U. S. LAKE ORE FREIGHTERS

January 1, 1952

Company	Number of Vessels	Capacity per Trip	Average Size
Pittsburgh Steamship Div. ....	61	696,350	11,416
Interlake Steamship Co. ....	35	357,700	10,220
Hutchinson & Co. ....	33	303,550	9,186
Cleveland Cliff Iron Co. ....	23	207,600	9,026
The M. A. Hanna Co., Agent ....	13	139,100	10,700
Great Lakes Steamship Co. ....	15	139,700	9,313
Bethlehem Transportation Co. ....	14	138,700	9,907
Wilson Transit Co. ....	10	102,900	10,290
Columbia Transportation Co. ....	9	74,100	8,233
Reiss Steamship Co. ....	8	76,400	9,550
Tomlinson Fleet ....	8	79,300	9,913
Midland Steamship Line ....	6	53,500	8,916
Jones and Laughlin Steel Co. ....	4	43,000	10,750
Kinsman Transit Co. ....	5	39,100	7,820
Shenango Furnace Co. ....	3	36,000	12,000
Boland and Cornelius ....	4	33,300	8,325
Ford Motor Co. ....	2	23,750	11,875
International Harvester Co. ....	2	22,300	11,150
Brown & Co. ....	3	21,400	7,133
Gartland Steamship Co. ....	3	24,300	8,100
Schneider Transportation Co. ....	2	11,800	5,900
Browning Steamship Co. ....	4	26,400	6,600
Nicholson Universal S. S. Co. ....	3	39,000	13,000
22 Companies .....	270	2,689,450	9,961

**COAST GUARD STATIONS****(With facilities for rendering assistance)****Maintained by the United States on the Great Lakes and Life-Saving Stations Maintained by Canada****Lake Superior**

- Duluth, Minn.—Lifeboat Station—On Minnesota Point, about  $\frac{1}{2}$  mile southerly from Duluth Ship Canal.
- Grand Marais, Mich.—Lifeboat Station—Four hundred feet west of the light on inner end of the west pier.
- Grand Marais, Minn.—North Superior Lifeboat Station—At south end of gravel spit on east side of harbor.
- Keweenaw Waterway, Mich.—Portage Lifeboat Station—On east bank of upper canal about 1,800 feet from original shore line of Lake Superior.
- Marquette, Mich.—Lifeboat Station—Near inner end of United States breakwater.
- Munising (Grand Island Harbor), Mich.—Lifeboat Station—On south side of Sand Point.
- Whitefish Point, Mich.—Light & Rescue Station—At Whitefish Point Light.

**Lake Michigan**

- Beaver Island, Mich.—Lifeboat Station—Near St. James Light in harbor.
- Calumet Harbor, Ill.—See Chicago.
- Charlevoix, Mich.—Lifeboat Station—South side of entrance to harbor.
- Chicago, Ill.—3 Lifeboat Stations—Chicago—on south side of entrance to Chicago River, at north end of main inner breakwater. Jackson Park—On west side of yacht harbor. South Chicago—On lake front in southerly part of Calumet Park.
- Frankfort, Mich.—Lifeboat Station—North side of entrance to harbor.
- Grand Haven, Mich.—Lifeboat Station—North side of entrance to harbor.
- Holland, Mich.—Lifeboat Station—South side of harbor entrance.
- Kenosha, Wis.—Lifeboat Station—On the east side of the inner basin.
- Ludington, Mich.—Lifeboat Station—North side of entrance to harbor.
- Manistee, Mich.—Lifeboat Station—North side of entrance to harbor.
- Michigan City, Ind.—Lifeboat Station—East side of entrance to harbor.

- Milwaukee, Wis.—Lifeboat Station—In McKinley Park, near north end of north breakwater.
- Muskegon, Mich.—Lifeboat Station—South side of entrance to harbor.
- Pentwater, Mich.—Lifeboat Station—On North side of harbor entrance.
- Plum Island, Wis.—Lifeboat Station—Near northeast point of island, about  $2\frac{3}{8}$  miles northwest of Pilot Island Light.
- Racine, Wis.—Lifeboat Station—Near inner end of north stub pier.
- St. Joseph, Mich.—Lifeboat Station—North side of harbor entrance.
- Sheboygan, Wis.—Lifeboat Station—Near inner end of old north pier stub.
- South Haven, Mich.—Lifeboat Station—South side of entrance to harbor, near shore line.
- South Manitou Island, Mich.—Light & Rescue Station—Limited personnel and facilities for local life-saving activities are maintained at the light station on southeast point of Island.
- Sturgeon Bay Canal, Wis.—Lifeboat Station—At easterly entrance, on north side.
- Traverse City, Mich.—Air station at southeasterly corporate limits.
- Two Rivers, Wis.—Lifeboat Station—North side of entrance to harbor.
- Willmette, Ill.—Lifeboat Station—On North side of Willmette harbor.

**St. Marys River**

- Sault Ste. Marie, Mich.—Coast Guard Base—At Sault Ste. Marie, Mich.

**Lake Huron**

- Harbor Beach, Mich.—Lifeboat Station—In the water to the west of the northerly end of the dredged anchorage area.
- Mackinac Island, Mich.—Lifeboat Station—In the northwesterly part of the harbor.
- Port Huron, Mich.—Lifeboat Station—On west side of entrance to St. Clair River, near Fort Gratiot Light.
- Saginaw Bay, Mich.—Light & Rescue Station—On northwesterly side of entrance to Saginaw River. Limited personnel and facilities for local life-saving activities.
- Southampton, Ont.—On the east breakwater, opposite Chantry Island.
- Tawas, Mich.—Lifeboat Station—Near the lighthouse.

**St. Clair River**

St. Clair Flats, Mich.—Light & Rescue Station—On northwesterly side of river at front light of St. Clair Flats Range. Limited personnel and facilities for local life-saving activities.

**Detroit River**

Detroit, Mich.—Lifeboat Station—At Belle Isle Light, near the upper end of the island.

Coast Guard Depot—At the foot of Mt. Elliot Avenue, Detroit.

**Lake Erie**

Ashtabula, Ohio—Lifeboat Station—On east side of river, about 600 feet north of the highway bridge.

Buffalo, N. Y.—Lifeboat Station & Coast Guard Base—Foot of Fuhrman Blvd., on the south pier at the mouth of Buffalo River.

Cleveland, Ohio—Lifeboat Station—On the west pier.

Erie, Pa.—Lifeboat Station—On north side of entrance channel, near Erie Range Light No. 2.

Fairport, Ohio—Lifeboat Station—On west side of mouth of Grand River.

Lorain, Ohio—Lifeboat Station—East side of mouth of Black River.

Marblehead, Ohio—Lifeboat Station—On Point Marblehead, near the quarry docks.

Point Pelee, Ont.—Near the south extremity of the point.

Sandusky, Ohio—Light & Rescue Station—On Cedar Point near northwesterly end. Limited personnel and facilities for local life-saving activities.

**Lake Ontario**

Fort Niagara, N. Y.—Lifeboat Station—East side of entrance to Niagara River.

Galloo Island, N. Y.—Lifeboat Station—In Gill Harbor, on easterly side of northerly end of the island.

Oswego, N. Y.—Lifeboat Station—On shore side of basin between New York State Barge Canal terminal and Lackawanna coal dock.

Rochester, N. Y.—Lifeboat Station—East side of entrance to harbor.

Toronto, Ont.—Main station is on north side of harbor, in mooring basin at foot of Rees Street. Substations are maintained at various points on water front during summer.



TABLE I.—DISTANCES BETWEEN POINTS ON THE GREAT LAKES

		36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2
		Montreal	Ogdensburg	Kingston	Toronto	Oswego	Rochester	Port Colborne	Buffalo	Erie	Conneaut	Ashtabula	Fairport	Cleveland	Lorain	Toledo	Detroit	Port Huron	Midland	Collingwood	Goderich	Bay City	Alpena	Ludington	Muskegon	Gary	Chicago	Milwaukee	Green Bay	Escanaba	Sault Ste. Marie	Marquette	Houghton	Ashland	Duluth	Two Harbors
1	Port Arthur.....	1212	1094	1034	903	1016	965	848	864	795	768	754	729	711	694	658	604	542	539	531	506	505	410	536	587	699	686	621	560	492	273	171	116	164	195	172
2	Two Harbors.....	1310	1192	1132	1001	1114	1063	946	963	893	866	852	828	809	792	756	702	640	638	630	604	603	508	634	685	797	785	720	659	590	371	239	157	71	26	
3	Duluth.....	1334	1216	1156	1025	1138	1087	970	986	917	890	876	851	833	816	781	726	664	661	653	628	627	532	657	709	820	808	743	682	614	394	261	179	93		
4	Ashland.....	1288	1170	1110	979	1092	1041	924	941	871	844	830	806	788	771	734	680	618	616	608	583	581	486	612	663	775	763	698	637	568	349	213	131			
5	Houghton.....	1160	1042	982	851	964	913	796	813	743	716	702	678	659	643	606	552	490	488	480	455	453	358	484	535	647	635	570	509	440	221	84				
6	Marquette.....	1099	981	921	790	903	852	735	751	682	655	641	616	593	581	545	491	429	426	418	393	391	297	422	474	585	573	508	447	378	159					
7	Sault Ste. Marie <sup>a</sup> .....	939	821	761	630	743	692	575	592	522	495	481	457	438	422	385	331	269	267	259	234	232	137	263	314	426	414	349	288	219						
8	Escanaba.....	1046	928	868	737	850	799	682	699	629	602	598	564	545	528	492	438	376	384	376	340	339	244	130	181	238	274	201	101							
9	Green Bay.....	1115	997	937	806	919	868	751	767	698	671	657	632	614	597	561	507	445	452	444	409	407	313	123	171	272	255	180								
10	Milwaukee.....	1176	1058	998	867	980	929	812	828	759	732	718	693	675	658	622	568	506	513	505	470	468	374	97	80	103	85									
11	Chicago.....	1241	1123	1063	932	1045	994	877	893	824	797	783	758	740	723	688	633	571	578	570	535	534	439	156	114	25										
12	Gary.....	1253	1135	1075	944	1057	1006	889	905	836	809	795	770	752	735	699	645	583	590	582	547	546	451	167	121											
13	Muskegon.....	1141	1023	963	832	945	894	777	794	724	697	683	659	640	623	587	533	471	479	471	435	434	339	56												
14	Ludington.....	1090	972	912	781	894	843	726	742	673	646	632	607	589	572	536	482	420	427	419	384	383	288													
15	Alpena.....	827	709	649	518	631	580	463	479	410	383	369	344	326	309	273	219	157	193	185	124	116														
16	Bay City.....	832	714	654	523	636	585	468	484	415	388	374	349	331	314	278	224	162	265	257	137															
17	Goderich.....	735	617	557	426	539	488	371	387	318	291	277	252	234	217	181	127	65	211	207																
18	Collingwood.....	928	810	750	619	732	681	564	580	511	484	470	446	427	410	374	320	258	55																	
19	Midland.....	936	818	758	627	740	689	572	588	519	492	478	453	435	418	382	328	266																		
20	Port Huron <sup>b</sup> .....	670	552	492	361	474	423	306	322	253	226	213	188	170	152	116	62																			
21	Detroit (Woodward Ave.).....	608	490	430	299	412	361	244	261	191	164	150	126	108	91	54																				
22	Toledo (river mouth).....	601	483	423	292	405	354	237	254	185	157	144	119	96	72																					
23	Lorain.....	544	426	366	235	348	297	180	197	124	95	80	53																							
24	Cleveland (main entrance).....	524	406	346	215	328	277	160	176	102	73	59	33																							
25	Fairport.....	494	376	316	185	298	247	130	146	73	44	30																								
26	Ashtabula.....	468	350	290	159	272	221	104	119	45	15																									
27	Conneaut.....	456	338	278	147	260	209	92	107	33																										
28	Erie.....	429	311	251	120	233	182	65	78																											
29	Buffalo (north entrance).....	386	268	208	77	190	139	22																												
30	Port Colborne.....	364	246	186	55	168	117																													
31	Rochester.....	266	147	89	95	59																														
32	Oswego.....	227	108	55	145																															
33	Toronto.....	338	219	161																																
34	Kingston.....	182	63																																	
35	Ogdensburg.....	120																																		
36	Montreal.....	0																																		

### EXPLANATION

Distances in these tables are expressed to the nearest even statute mile; fractions of  $\frac{1}{2}$  mile or more being taken as a full mile and those under the half dropped.

The results are, therefore, at times inconsistent by 1 mile in their comparative differences. Thus, measured distances to two given points may differ uniformly by 0.8 mile; if the respective distances to the two points from a certain port measure 116.0 and 115.2, they appear in the table as 116 and 115, a difference of 1 mile; whereas from the next port listed, the distances to the same two points may measure 105.4 and 104.6, and both will appear in the table as 105.

Measurements are by the shortest marked or safe direct courses, starting (unless otherwise noted) from the main entrances between pierheads of breakwaters or piers, or from the principal landings of open roads. Where landings are appreciably remote from protected entrances, the appropriate further distances, if desired, may be ascertained from the harbor descriptions or from charts.

Points in this table are arranged in the order of their location on the several lakes in the following sequence: Lake Superior, Lake Michigan, Lake Huron, Lake Erie, and Lake Ontario.

The distance between any two points appears in the line extending horizontally from the point first in order in the list and in the column headed by the other point.

## EXPLANATION

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<sup>a</sup> From abreast east end of U. S. pier.

<sup>b</sup> From foot of Grand River Ave.

TABLE II.—DISTANCES BETWEEN POINTS ON LAKE SUPERIOR

Other tables to which initial points Nos. 1-4 are common: III—Lake Michigan. IV—Lake Huron and St. Marys River. V—Lake Erie, St. Clair, Detroit, and Niagara Rivers. VI—Lake Ontario and St. Lawrence River.		37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4
		Gargantua Harbor	Michipicoten Harbor	Quebec Harbor	Peninsula Harbor	Rosport	Port Arthur	Fort William	Passage Island	Rock of Ages	Grand Marais, Minn.	Two Harbors	Duluth	Superior	Port Wing	Bayfield	Washburn	Ashland	Ontonagon	Keweenaw W. Upper Ent. Houghton	Dollar Bay	Lake Linden	Chassell	Portage Entry	Eagle Harbor	Copper Harbor	Mendota Canal	L'Anse	Huron Bay	Marquette	Munising	Grand Marais, Mich.	Whitfish Point	Sault Ste. Marie	
1	Port Colborne (VI).....	666	697	691	771	809	848	847	804	838	880	946	970	968	939	912	920	924	850	807	796	793	799	791	782	779	764	764	792	779	735	706	667	617	575
2	Port Huron (V).....	360	391	335	465	503	542	541	498	532	574	640	664	662	633	606	614	618	544	501	490	487	493	485	476	473	458	458	486	473	429	400	361	311	269
3	Old Mackinac Point (III).....	181	212	206	2,5	324	363	362	319	353	395	461	435	483	454	426	435	439	365	322	311	308	314	306	297	294	279	279	307	294	249	221	182	134	90
4	Sault Ste. Marie (IV).....	91	121	116	195	234	273	272	229	263	305	371	394	393	364	336	345	349	*274	*232	221	218	224	215	207	204	189	189	217	204	159	131	92	42	
5	Whitefish Point.....	54	83	74	153	192	231	230	187	221	263	329	352	351	322	294	303	307	*232	*190	179	176	182	173	165	162	147	147	175	162	117	89	50		
6	Grand Marais, Mich.....	78	102	70	144	171	198	197	154	182	224	*289	*312	*310	*232	*252	*260	*264	*187	*143	133	130	135	127	119	123	108	105	129	114	68	40			
7	Munising.....	112	136	97	162	179	193	192	150	174	*212	*271	*293	*291	*263	*233	*240	*245	*168	*124	114	111	116	108	99	113	100	93	110	93	42				
8	Marquette (docks).....	135	154	112	160	164	171	170	123	*149	*181	*239	*261	*260	*231	*201	*209	*213	*136	*93	84	81	84	76	68	91	76	67	78	62					
9	Huron Bay (village).....	165	179	132	159	152	157	156	113	*110	*142	*201	*223	*222	*193	*163	*171	*175	*98	*54	44	41	46	38	30	74	60	44	39						
10	L'Anse.....	179	192	146	169	162	*145	*144	108	*95	*127	*186	*208	*206	*178	*148	*156	*160	*83	*39	29	26	31	23	14	70	71	51							
11	Mendota Canal.....	138	152	105	125	117	122	121	78	103	145	212	234	232	204	*174	*192	*186	*110	*69	55	52	58	50	41	42	27								
12	Copper Harbor.....	137	145	100	112	99	100	99	56	77	119	185	208	206	178	150	159	163	88	45	56	59	71	65	60	16									
13	Eagle Harbor.....	151	159	114	122	102	96	95	53	65	105	170	194	192	163	135	143	147	72	31	41	45	57	50	56										
14	Portage Bay.....	168	181	135	157	149	*130	*129	94	*81	*113	*171	*193	*192	*163	*133	*141	*145	*68	*25	14	11	17	9											
15	Chassell.....	177	190	143	166	145	125	124	89	76	108	166	188	187	158	128	136	140	63	20	9	6	12												
16	Lake Linden.....	185	198	151	174	151	131	130	95	82	113	172	194	193	163	134	142	146	69	26	15	11													
17	Dollar Bay.....	180	192	146	163	139	119	118	83	70	102	160	182	181	152	122	120	134	57	14	3														
18	Houghton.....	182	195	149	160	136	116	115	80	67	99	157	179	178	149	119	127	131	54	11															
19	Keweenaw Waterway Upper Entry.....	180	187	142	149	126	105	105	69	56	88	147	169	167	139	109	116	120	44																
20	Ontonagon.....	221	228	183	189	165	117	116	103	68	76	114	136	135	106	74	78	82																	
21	Ashland.....	295	304	258	261	227	164	163	165	115	85	71	93	92	63	16																			
22	Washburn.....	291	300	254	256	222	160	159	161	111	81	67	89	88	59	12																			
23	Bayfield.....	282	291	246	254	221	149	148	152	99	70	57	78	77	49																				
24	Port Wing.....	312	319	275	272	233	169	168	175	121	83	22	34	32																					
25	Superior.....	340	347	303	300	259	195	195	199	147	107	28	7																						
26	Duluth.....	342	349	305	300	259	195	194	200	147	105	26																							
27	Two Harbors.....	319	327	281	277	236	172	171	177	124	82																								
28	Grand Marais, Minn.....	252	256	214	199	157	92	91	99	47																									
29	Rock of Ages.....	209	213	171	155	112	49	48	53																										
30	Passage Island.....	164	166	127	102	63	44	43																											
31	Fort William.....	207	209	170	141	101	3																												
32	Port Arthur.....	208	209	171	142	102																													
33	Rosport.....	157	155	125	71																														
34	Peninsula Harbor.....	114	112	86																															
35	Quebec Harbor.....	41	49																																
36	Michipicoten Harbor.....	32																																	
37	Gargantua Harbor.....	0																																	

EXPLANATION

Explanation generally applicable to all tables is published in Table I.

Points in this table are arranged in geographical sequence proceeding westward along the south shore and returning eastward around the north shore.

For determining distances to points located in other lakes, distances from all places listed in this table are given to the initial points Nos. 1 to 4, which also appear in the other tables respectively indicated by numeral designation. The through distance from a given point in this table to a given point in any other table is the sum of the respective distances to each given point from the initial point which is common to the two tables.

Thus, Port Huron being the common point for determining distances from Lake Superior points to points in Lake Erie (Table V), a through distance would be derived as follows:

Port Huron to Ontonagon..... 544

Port Huron to Dunkirk..... 292

Ontonagon to Dunkirk..... 836

From foot of Grand River Ave.

From sailing course point north of light.

From abreast east end of United States center pier

Via Keweenaw Waterway.

## EXPLANATION

Explanation generally applicable to all tables is published in Table I.

Points in this table are arranged in geographical sequence proceeding westward along the south shore and returning eastward around the north shore.

For determining distances to points located in other lakes, distances from all places listed in this table are given to the initial points Nos. 1 to 4, which also appear in the other tables respectively indicated by numeral designation. The through distance from a given point in this table to a given point in any other table is the sum of the respective distances to each given point from the initial point which is common to the two tables. Thus, Port Huron being the common point for determining distances from Lake Superior points to points in Lake Erie (Table V), a through distance would be derived as follows:

Port Huron to Ontonagon..... 544  
Port Huron to Dunkirk..... 292

Ontonagon to Dunkirk..... 836

\* From foot of Grand River Ave.

\* From sailing course point north of light.

\* From abreast east end of United States center pier.

\* Via Keweenaw Waterway.

TABLE III.—DISTANCES BETWEEN POINTS ON LAKE MICHIGAN

Other tables to which initial point No. 1 is common: II—Lake Superior. IV—Lake Huron and St. Marys Riv. V—Lake Erie, St. Clair, Detroit, and Niagara Rivers. VI—Lake Ontario and St. Lawrence River.		37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2
		Beaver Island Harbor Potoskey Charlevoix	Traverse City Frankfort Portage Lake			Manistee Ludington Pentwater	White Lake Muskegon Grand Haven	Holland Saugatuck South Haven	St. Joseph Michigan City Gary	Indiana Harbor South Chicago Chicago	Waukegan Kenosha Racine	Milwaukee Port Washington Sheboygan	Manitowoc Two Rivers Kewaunee	Algoma Sturgeon Bay Green Bay	Menominee Escanaba Manistique																						
1	Old Mackinac Point(II-IV-V-Manistee..... VI) <sup>a</sup>	41	55	56	97	122	142	150	173	194	213	224	233	257	263	291	300	325	336	334	333	324	296	282	272	259	237	212	191	187	170	161	155	198	155	129	75
2	Escanaba.....	43	76	64	94	91	110	118	141	152	182	193	207	225	232	250	268	294	303	301	298	290	260	244	235	220	195	168	146	142	120	111	103	135	92	66	
3	.....	99	113	99	120	91	106	112	130	141	170	181	195	213	220	233	255	280	288	236	283	274	242	226	217	201	176	149	127	122	100	90	69	101	55		
4	Menominee <sup>b</sup> .....	*122	*134	*119	*133	80	86	87	99	103	135	146	159	177	183	200	216	239	246	243	240	230	198	184	172	155	130	103	81	75	52	43	22	49			
5	Green Bay (city) <sup>b</sup> .....	*165	176	160	178	195	111	112	123	134	159	171	184	202	209	225	242	264	272	268	265	255	223	209	197	180	155	128	106	101	78	68	47				
6	Sturgeon Bay (town).....	123	129	113	131	53	64	65	76	87	113	124	137	155	162	178	195	217	225	222	218	203	176	162	150	133	108	81	58	54	30	21					
7	Algoma.....	131	135	119	136	59	60	59	66	75	100	111	123	142	148	163	179	200	206	203	200	190	158	142	132	115	89	62	40	36	12						
8	Kewaunee.....	138	143	126	143	62	60	59	61	70	93	104	116	135	141	156	171	192	197	194	191	181	149	133	123	105	79	53	31	26							
9	Two Rivers.....	156	159	142	160	75	67	62	57	61	78	89	101	118	123	137	151	170	174	171	168	158	125	109	100	82	55	29	6								
10	Manitowoc.....	161	163	147	164	79	71	66	60	64	79	90	102	118	123	137	150	169	173	169	166	156	123	107	97	79	53	26									
11	Sheboygan.....	180	181	165	192	95	83	76	60	63	68	78	87	102	106	118	130	146	149	146	143	132	99	83	74	55	29										
12	Port Washington.....	206	205	189	206	119	104	93	80	76	72	77	84	94	97	105	112	124	125	121	118	107	74	58	48	23											
13	Milwaukee.....	228	227	211	223	140	125	117	97	91	78	80	83	88	89	93	96	104	103	99	96	85	51	35	26												
14	Racine.....	242	241	225	242	153	137	129	108	100	81	80	80	79	80	80	78	84	83	78	75	64	80	14													
15	Kenosha.....	252	251	234	252	163	147	138	117	108	86	87	86	82	82	79	75	76	73	67	64	54	18														
16	Waukegan.....	266	265	249	266	177	160	152	130	122	100	96	93	86	84	78	70	64	59	52	49	38															
17	Chicago.....	294	293	276	293	234	196	179	156	146	120	114	108	95	90	77	60	33	25	19	15																
18	South Chicago.....	302	301	235	302	213	196	188	165	154	127	120	114	100	95	79	60	33	14	7																	
19	Indiana Harbor.....	304	303	237	304	215	198	189	167	156	129	122	115	99	95	79	59	31	13																		
20	Gary.....	309	303	292	309	216	139	191	167	157	129	121	114	99	93	77	55	22																			
21	Michigan City.....	295	294	273	295	236	139	181	157	146	117	108	99	82	75	57	36																				
22	St. Joseph.....	269	263	251	268	179	162	154	130	119	83	78	69	50	44	24																					
23	South Haven.....	251	250	233	250	161	144	136	111	101	69	58	49	29	22																						
24	Saugatuck.....	232	231	215	232	143	126	118	93	83	51	40	29	8																							
25	Holland.....	227	226	210	227	137	120	112	89	77	45	34	23																								
26	Grand Haven.....	206	205	189	206	117	103	92	67	57	25	13																									
27	Muskegon.....	195	194	178	195	106	89	80	56	46	13																										
28	White Lake.....	184	183	167	184	95	78	69	45	35																											
29	Pentwater.....	154	153	137	154	65	48	39	14																												
30	Ludington.....	143	142	126	143	54	37	26																													
31	Manistee.....	118	117	100	113	28	10																														
32	Portage Lake.....	110	109	93	110	20																															
33	Frankfort.....	93	92	75	92																																
34	Traverse City.....	69	58	45																																	
35	Charlevoix.....	33	18																																		
36	Potoskey.....	37																																			
37	Beaver Island Harbor.....	0																																			

EXPLANATION

Explanation generally applicable to all tables be published in Table I.

Points in this table are arranged in geographical sequence proceeding southward along the west shore and returning northward along the east shore.

For determining distances to points in other lakes, distances from all places listed in this table are given to Old Mackinac Point, and this initial point also appears in each of the other tables respectively indicated by a numeral designation.

The through distance from a given point in this table to a given point in any other table is the sum of the respective distances to each given point from Old Mackinac Point, common to the two tables.

Thus, a through distance from a Lake Michigan point to a point in Lake Superior (Table II) would be derived as follows:

Old Mackinac Point to Racine..... 272

Old Mackinac Point to Ashland..... 439

Racine to Ashland..... 711

\* From sailing course point north of light.

<sup>b</sup> Distances from Menominee and Green Bay to Lake Michigan points (except those marked \*) are via Sturgeon Bay Canal.

\* Via Rock Island Passage.

## EXPLANATION

Explanation generally applicable to all tables is published in Table I.

Points in this table are arranged in geographical sequence proceeding southward along the west shore and returning northward along the east shore.

For determining distances to points in other lakes, distances from all places listed in this table are given to Old Mackinac Point, and this initial point also appears in each of the other tables respectively indicated by numeral designation. The through distance from a given point in this table to a given point in any other table is the sum of the respective distances to each given point from Old Mackinac Point, common to the two tables. Thus, a through distance from a Lake Michigan point to a point in Lake Superior (Table II) would be derived as follows:

Old Mackinac Point to Racine..... 272

Old Mackinac Point to Ashland..... 439

Racine to Ashland..... 711

<sup>a</sup> From sailing course point north of light.

<sup>b</sup> Distances from Menominee and Green Bay to Lake Michigan points (except those marked \*) are via Sturgeon Bay Canal.

\* Via Rock Island Passage.



TABLE IV.—DISTANCES BETWEEN POINTS ON LAKE HURON &amp; ST. MARYS RIVER

Other tables to which initial points 1-3 are common. II—Lake Superior. III—Lake Michigan. V—Lake Erie, St. Clair, Detroit and Niagara Rivers. VI—Lake Ontario and St. Law- rence River.		36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2
		Thessalon	Algoma Mills	Gore Bay	Little Current	Killarney	French River	Key Harbor	Byng Inlet	Parry Sound	Depot Harbor	Victoria Harbor	Midland	Penetanguishene	Collingwood	Meaford	Owen Sound	Warton	Southampton	Kincardine	Goderich	Port Sanilac	Harbor Beach	Saginaw	Bay City	East Tawas	Au Sable	Alpena	Rockport	Rogers	Cheboygan	Mackinac Island	St. Ignace	Detour	Sault Ste. Marie	Old Mackinac Point
1	Port Huron (V-VI) <sup>a</sup>	*238	†238	†250	225	213	224	232	229	247	243	267	266	265	258	241	238	228	121	94	65	33	63	175	162	119	117	157	166	194	233	243	247	224	269	247
2	Old Mackinac Point (III) <sup>b</sup>	69	*101	*116	*143	*167	*196	*205	*211	235	231	256	255	254	247	230	227	217	189	192	211	215	186	223	210	163	142	115	83	54	18	7	6	45	90	
3	Sault Ste. Marie (II) <sup>c</sup>	†48	†88	†106	†131	†155	†184	†193	†201	232	†238	268	267	266	259	242	239	229	207	213	234	238	208	246	232	185	165	137	107	84	84	84	90	45		
4	Detour.....	‡24	‡58	‡76	‡101	‡125	‡154	‡163	‡171	201	199	224	222	221	214	197	194	185	162	168	189	193	164	201	187	140	120	92	61	40	39	39	44			
5	St. Ignace.....	‡68	*100	*115	*142	*166	*195	*204	*209	234	231	256	254	252	246	229	227	217	191	194	214	216	187	224	210	163	143	115	83	55	20	6				
6	Mackinac Island.....	‡63	*95	*110	‡137	*161	*190	*199	*234	229	226	251	249	248	241	224	221	212	186	189	209	212	184	220	207	159	140	111	79	50	17					
7	Cheboygan.....	‡63	*92	*106	*133	*157	*186	*195	*197	221	217	242	241	240	233	216	213	204	175	178	198	202	173	210	196	149	129	101	69	40						
8	Rogers.....	*63	†74	†87	†114	†138	157	163	164	187	183	238	206	206	199	182	177	169	139	142	161	163	134	171	157	110	90	61	31							
9	Rockport.....	*79	†79	†92	†119	†123	136	143	143	166	162	187	186	185	178	161	158	148	112	113	132	134	106	142	129	82	62	31								
10	Alpena.....	*107	†107	†120	†143	131	145	151	152	174	171	195	193	192	185	168	165	156	109	107	124	125	97	129	116	69	49									
11	Au Sable.....	*135	†135	†148	158	146	160	163	166	183	180	204	202	201	189	177	174	165	98	85	93	86	58	83	69	21										
12	East Tawas.....	*155	†155	†168	175	163	176	180	182	199	196	220	218	217	210	194	190	181	110	95	95	88	60	68	54											
13	Bay City.....	*202	†202	†215	222	210	223	228	229	245	243	267	265	364	257	240	237	228	153	136	137	130	102	113												
14	Saginaw.....	*216	†216	†228	235	223	237	242	242	258	256	290	278	278	271	254	250	241	167	149	151	144	115													
15	Harbor Beach.....	*178	†178	†191	171	159	171	176	176	191	190	214	213	212	205	188	185	175	79	56	47	32														
16	Port Sanilac.....	*207	†207	†219	197	185	196	201	201	219	215	239	238	237	230	213	210	200	97	70	47															
17	Goderich.....	†193	†198	204	169	159	172	172	174	192	189	213	211	210	207	187	193	174	64	36																
18	Kincardine.....	†173	†174	174	141	123	142	149	144	162	158	182	181	180	176	156	153	144	30																	
19	Southampton.....	†166	†166	155	122	110	123	130	125	143	140	163	162	161	157	137	134	125																		
20	Warton.....	†188	158	142	110	94	88	79	81	74	71	76	74	73	53	36																				
21	Owen Sound <sup>d</sup>	†197	167	152	119	103	97	97	89	79	75	71	70	69	46	29																				
22	Meaford <sup>d</sup>	†200	169	153	121	105	96	96	86	71	69	55	53	52	24																					
23	Collingwood <sup>d</sup>	†217	186	171	138	120	108	107	97	80	76	57	55	54																						
24	Penetanguishene <sup>d</sup>	†224	187	172	139	120	106	104	94	72	69	12	10																							
25	Midland <sup>d</sup>	†225	188	173	140	121	107	105	95	73	70	7																								
26	Port McNicholl <sup>d</sup>	†227	190	174	142	122	108	106	97	75	71																									
27	Depot Harbor <sup>d</sup>	193	155	140	107	87	73	71	62	6																										
28	Parry Sound <sup>d</sup>	197	159	143	111	91	77	75	65																											
29	Byng Inlet <sup>d</sup>	155	118	102	70	50	31	27																												
30	Key Harbor <sup>d</sup>	148	110	94	62	42	22																													
31	French River <sup>d</sup>	139	101	86	53	33																														
32	Killarney <sup>d</sup>	110	72	56	24																															
33	Little Current.....	86	48	33																																
34	Gore Bay.....	61	27																																	
35	Algoma Mills.....	43																																		
36	Thessalon.....	0																																		

### EXPLANATION

Explanation generally applicable to all tables is published in Table 1.

Points in this table are arranged in geographical sequence proceeding from St. Marys River southward along the west shore, and returning northward up the east shore, around Georgian Bay, and westward through North Channel.

For determining distances to points located in other lakes, distances from all places listed in this table are given to the initial points Nos. 1 to 3, which also appear in the other tables respectively indicated by numeral designation. The through distance from a given point in this table to a given point in any other table is the sum of the respective distances to each given point from the initial point which is common to the two tables.

<sup>a</sup> From foot of Grand River Ave.  
<sup>b</sup> From sailing course point north of light.  
<sup>c</sup> From abreast east end of U. S. center pier, and (except those marked †) via Middle Neebish and Detour; distances downbound through West Neebish are 1 mile less.  
<sup>d</sup> Distances to Georgian Bay ports (except those marked \*, †, ‡) are via the Bay entrance from Lake Huron and St. Marys River points and via Little Current from North Channel points.  
† Via False Detour and North Channels.  
‡ Via Mississagi Strait and North Channel.  
‡ Via Hay Lake, St. Joseph, and North Channels.  
\* Via Potaganissing Bay and North Channel.

## EXPLANATION

Explanation generally applicable to all tables is published in Table I.

Points in this table are arranged in geographical sequence proceeding from St. Marys River southward along the west shore, and returning northward up the east shore, around Georgian Bay, and westward through North Channel.

For determining distances to points located in other lakes, distances from all places listed in this table are given to the initial points Nos. 1 to 3, which also appear in the other tables respectively indicated by numeral designation. The through distance from a given point in this table to a given point in any other table is the sum of the respective distances to each given point from the initial point which is common to the two tables.

<sup>a</sup> From foot of Grand River Ave.

<sup>b</sup> From sailing course point north of light.

<sup>c</sup> From abreast east end of U. S. center pier, and (except distances marked †) via Middle Neebish and Detour; distances downbound through West Neebish are 1 mile less.

<sup>d</sup> Distances to Georgian Bay ports (except those marked \*, †, ‡) are via the bay entrance from Lake Huron and St. Marys River points and via Little Current from North Channel points.

\* Via False Detour and North Channels.

† Via Mississagi Strait and North Channel.

‡ Via Hay Lake, St. Joseph, and North Channels.

• Via Potagannissing Bay and North Channel.



TABLE V.—DISTANCES BETWEEN POINTS ON LAKE ERIE &amp; ST. CLAIR, DETROIT, &amp; NIAGARA RIVERS

TABLE V. DISTANCES BETWEEN POINTS ON LAKE SUPERIOR, LAKE MICHIGAN, LAKE HURON, LAKE ERIE, AND LAKE ONTARIO.																																					
Other tables to which initial points Nos. 1-3 are common: II—Lake Superior. III—Lake Michigan. IV—Lake Huron and St. Marys River. VI—Lake Ontario and St. Lawrence River.	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	
	Kingsville Rondeau Port Stanley	Port Burwell Port Dover Port Maitland	Niagara Falls Tonawanda Buffalo	Dunkirk Erie Conneaut	Ashtabula Fairport Cleveland	Lorain Vermilion Huron	Sandusky Put-in-Bay Port Clinton	Toledo Monroe Detroit River Light	Amherstburg Trenton Wyandotte	Detroit Chatham Mt. Clemens St. Clair Flats Algonac Marine City	St. Clair Port Huron Port Colborne																										
1 Old Mackinac Point (III) <sup>a</sup> .....	358	414	459	475	527	538	588	580	569	539	500	473	460	435	417	399	391	397	380	363	369	363	348	334	326	324	320	309	322	296	286	274	266	259	247	553	
2 Port Colborne (VI) .....	201	146	109	89	52	13	41	33	22	25	65	92	104	130	160	180	190	199	204	204	213	237	227	219	227	229	234	244	292	278	267	281	287	294	306		
3 Port Huron (II-IV) <sup>b</sup> .....	111	167	212	228	280	291	341	333	322	292	253	226	213	188	170	152	144	140	133	116	122	116	101	87	79	77	73	62	75	49	39	27	19	12			
4 St. Clair .....	99	155	200	216	268	279	330	322	311	281	241	214	201	176	158	141	133	129	122	105	111	105	89	75	67	65	61	50	63	37	27	15	7				
5 Marine City .....	92	148	193	209	261	272	322	314	303	273	234	207	194	169	151	133	125	121	114	97	103	97	82	68	60	58	54	43	56	30	20	7					
6 Algonac .....	86	143	188	203	255	267	317	309	298	268	228	201	188	163	145	128	120	116	109	92	98	92	76	62	55	53	48	37	49	22	14						
7 St. Clair Flats <sup>c</sup> .....	72	129	174	189	241	253	303	295	284	254	215	187	174	149	131	114	106	102	95	78	84	78	62	48	41	39	34	23	35	15							
8 Mt. Clemens .....	83	140	185	200	252	264	314	306	295	265	226	199	185	161	142	125	117	113	106	89	95	89	73	59	53	50	45	35	49								
9 Chatham .....	97	154	199	214	265	278	328	320	309	279	239	212	198	174	156	139	130	127	120	102	108	102	87	73	66	63	59	48									
10 Detroit (Woodward Ave.) .....	49	106	151	166	217	230	280	272	261	231	191	164	150	126	103	91	82	79	72	54	60	54	39	25	18	15	11										
11 Wyandotte .....	39	96	141	156	208	220	270	262	251	221	182	154	141	116	98	81	73	69	62	45	51	45	29	15	8	5											
12 Trenton .....	34	91	136	151	203	215	265	257	246	216	177	149	136	111	93	76	68	64	57	40	46	40	24	10	13												
13 Amherstburg .....	31	88	133	148	200	212	262	254	243	213	173	146	133	108	90	73	64	61	54	36	42	36	21	7													
14 Detroit River Light .....	24	81	126	141	193	205	255	247	236	206	166	139	126	101	83	66	58	54	47	30	36	30	14														
15 Monroe (piers) .....	33	89	134	149	200	213	263	255	244	214	174	147	133	109	89	68	60	54	48	30	35	21															
16 Toledo (river mouth) .....	45	98	143	159	210	223	272	265	254	224	185	157	144	119	96	72	65	59	52	38	40																
17 Port Clinton .....	37	75	120	136	187	199	249	241	230	200	160	131	118	92	67	43	36	29	22	12																	
18 Put-in-Bay .....	27	66	111	127	177	190	240	232	221	190	150	122	109	83	61	38	32	27	21																		
19 Sandusky (wharves) .....	41	69	114	130	178	190	239	232	221	189	149	120	107	79	55	29	21	14																			
20 Huron .....	47	68	111	124	172	184	233	226	215	183	142	113	99	72	47	20	11																				
21 Vermilion .....	46	62	104	117	163	175	225	217	206	174	133	104	90	63	37	11																					
22 Lorain .....	48	57	97	109	154	166	215	208	197	164	124	95	80	53	28																						
23 Cleveland (main entrance) .....	65	53	85	93	134	146	194	187	176	143	102	73	59	33																							
24 Fairport .....	83	48	62	66	104	116	165	157	146	114	73	44	30																								
25 Ashtabula .....	108	63	56	47	79	90	138	130	119	86	45	15																									
26 Conneaut .....	122	74	59	48	68	80	126	118	107	74	33																										
27 Erie .....	149	98	70	53	47	54	98	89	78	45																											
28 Dunkirk .....	188	134	98	78	50	28	55	48	37																												
29 Buffalo .....	218	163	126	106	72	38	21	13																													
30 Tonawanda .....	230	174	137	117	83	49	8																														
31 Niagara Falls .....	237	182	145	125	90	57																															
32 Port Maitland .....	187	132	95	75	37																																
33 Port Dover .....	175	120	83	62																																	
34 Port Burwell .....	123	65	23																																		
35 Port Stanley .....	108	49																																			
36 Rondeau .....	63																																				
37 Kingsville .....	0																																				

### EXPLANATION

Explanation generally applicable to all tables is published in Table I.

Points in this table are arranged in geographical sequence proceeding southward in St. Clair River and Lake and Detroit River, eastward along the south shore of Lake Erie to Niagara River, and returning westward along the north lake shore.

For determining distances to points located in other lakes, distances from all places listed in this table are given to the initial points Nos. 1 to 3, which also appear in the other tables respectively indicated by numerical designation. The through distance from a given point in this table to a given point in any other table is the sum of the respective distances to each given point from the initial point which is common to the two tables. Thus, Old Mackinac Point being the common point for determining distances from Lake Erie to points in Lake Michigan (Table III), a through distance would be derived as follows:

Old Mackinac Point to Tonawanda .....	58
Old Mackinac Point to Sheboygan .....	2
Tonawanda to Sheboygan .....	75

<sup>a</sup> From sailing course point north of light.

<sup>b</sup> From foot of Grand River Ave.

<sup>c</sup> From south end of canal dike.

## EXPLANATION

Explanation generally applicable to all tables is published in Table I.

Points in this table are arranged in geographical sequence proceeding southward in St. Clair River and Lake and Detroit River, eastward along the south shore of Lake Erie to Niagara River, and returning westward along the north lake shore.

For determining distances to points located in other lakes, distances from all places listed in this table are given to the initial points Nos. 1 to 3, which also appear in the other tables respectively indicated by numeral designation. The through distance from a given point in this table to a given point in any other table is the sum of the respective distances to each given point from the initial point which is common to the two tables. Thus, Old Mackinac Point being the common point for determining distances from Lake Erie to points in Lake Michigan (Table III), a through distance would be derived as follows:

Old Mackinac Point to Tonawanda ..... 580  
Old Mackinac Point to Sheboygan ..... 212

Tonawanda to Sheboygan ..... 792

<sup>a</sup> From sailing course point north of light.

<sup>b</sup> From foot of Grand River Ave.

<sup>c</sup> From south end of canal dike.

TABLE VI.—DISTANCES BETWEEN POINTS ON LAKE ONTARIO &amp; ST. LAWRENCE RIVER

		37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3
Other tables to which initial points Nos. 1-3 are common: II—Lake Superior. III—Lake Michigan. IV—Lake Huron and St. Marys River. V—Lake Erie, St. Clair, Detroit, and Niagara Rivers.		Montreal	Lachine Canal	Soulanges Canal	St. Regis	Cornwall	Cornwall Canal	Farran Point Canal	Rapide Plat Canal	Galop Canal	Ogdensburg	Brockville	Alexandria Bay	Thousand Island Park	Clayton	Gananoque	Kingston	Picton	Deseronto	Belleville	Trenton	Cobourg	Port Hope	Toronto	Hamilton	Port Weller	Lewiston	Niagara-on-the-Lake	Olcott	Rochester	Sodus Bay	Little Sodus Bay	Oswego	Sacketts Harbor	Cape Vincent	Port Colborne
1	Old Mackinac Point (III) <sup>a</sup> .....	917	908	878	851	847	836	831	817	836	799	787	766	760	755	758	739	726	713	697	638	653	648	608	610	580	593	592	608	670	698	712	721	745	740	553
2	Port Huron (IV) <sup>b</sup> .....	670	661	631	604	600	599	584	570	559	552	540	519	513	508	511	492	479	466	450	441	406	401	361	363	333	351	345	361	423	451	465	474	498	493	306
3	Port Colborne (II-V).....	364	355	325	298	294	283	278	264	253	246	234	213	207	202	205	186	173	160	144	135	100	95	55	57	27	45	39	55	117	145	159	168	192	187	
4	Cape Vincent.....	178	169	139	112	108	97	91	78	66	60	48	27	20	16	19	24	45	51	67	78	101	106	160	186	160	160	154	134	89	69	59	49	26		
5	Sacketts Harbor.....	204	195	165	138	134	123	117	103	92	86	74	53	46	42	45	36	56	61	78	88	106	112	165	191	165	164	158	138	88	64	52	41			
6	Oswego.....	226	217	188	161	157	146	140	127	115	109	97	76	69	65	68	55	66	71	88	82	91	96	145	166	141	139	133	113	59	29	15				
7	Little Sodus Bay.....	236	227	197	170	165	155	149	136	125	118	106	85	78	74	77	64	73	78	88	79	85	90	136	157	131	130	124	104	48	18					
8	Sodus Bay.....	245	236	207	180	176	165	159	146	134	128	116	95	88	84	87	72	80	86	83	74	77	81	124	145	118	118	112	92	35						
9	Rochester (Charlotte).....	266	257	227	200	196	185	179	166	154	148	136	115	108	104	107	90	98	89	73	64	57	60	96	117	89	89	83	63							
10	Olcott.....	311	302	272	245	241	230	224	211	199	193	181	160	153	149	152	134	121	109	92	83	51	47	38	55	28	28	22								
11	Niagara-on-the-Lake.....	331	321	292	265	261	250	244	231	219	213	201	180	173	169	172	154	141	128	111	102	66	63	30	39	11	6									
12	Lewiston.....	337	327	298	271	267	256	250	237	225	219	207	186	179	175	178	160	147	134	117	108	72	69	36	45	17										
13	Port Weller.....	337	327	298	271	267	256	250	237	225	219	207	186	179	175	178	159	146	133	117	107	72	68	28	30											
14	Hamilton.....	362	353	324	297	292	282	276	262	251	244	232	211	205	200	204	185	169	156	140	131	94	88	*30												
15	Toronto (east entrance).....	337	328	298	271	267	256	250	237	226	219	207	186	180	175	179	160	142	129	112	103	65	60													
16	Port Hope.....	283	274	245	218	214	203	197	183	172	166	154	132	126	121	125	106	85	72	56	47	7														
17	Cobourg.....	278	269	239	212	208	197	191	178	167	160	148	127	120	116	120	101	79	67	50	41															
18	Trenton.....	250	241	211	184	180	169	163	150	139	132	120	101	94	90	89	71	40	28	11																
19	Belleville.....	239	230	201	174	169	158	153	139	128	121	109	90	84	80	78	60	29	17																	
20	Deseronto.....	223	214	184	157	153	142	136	123	111	105	93	74	68	63	62	44	13																		
21	Picton.....	217	208	178	151	147	136	130	117	105	99	87	68	62	57	56	37																			
22	Kingston.....	181	171	142	115	110	100	94	80	69	62	50	32	25	21	19																				
23	Gananoque.....	162	153	124	97	92	81	76	62	51	44	32	18	11	10																					
24	Clayton.....	162	153	124	97	92	81	75	62	51	44	32	11	4																						
25	Thousand Island Park.....	159	150	120	93	89	78	72	59	47	41	29	8																							
26	Alexandria Bay.....	152	142	113	86	81	71	65	51	40	33	22																								
27	Brockville.....	130	121	92	65	60	49	44	30	19	12																									
28	Ogdensburg.....	118	109	80	53	48	37	32	18	7																										
29	Galop Canal <sup>c</sup> .....	111	102	73	46	41	30	25	11																											
30	Rapide Plat Canal <sup>c</sup> .....	100	91	62	35	30	19	13																												
31	Farran Point Canal <sup>c</sup> .....	87	78	48	21	17	6																													
32	Cornwall Canal <sup>c</sup> .....	81	72	42	15	11																														
33	Cornwall.....	70	61	32	5																															
34	St. Regis.....	67	58	29																																
35	Soulanges Canal <sup>c</sup> .....	38	29																																	
36	Lachine Canal <sup>c</sup> .....	9																																		
37	Montreal.....	0																																		

### EXPLANATION

Explanation generally applicable to all tables is published in Table I.

Points in this table are arranged in geographical sequence proceeding westward along the south shore and returning eastward along the north shore of the lake and down St. Lawrence River.

For determining distances to points located in other lakes, distances from all places listed in this table are given to the initial points Nos. 1 to 3, which also appear in the other tables respectively indicated by numeral designation. The through distance from a given point in this table to a given point in any other table is the sum of the respective distances to each given point from the initial point which is common to the two tables. Thus, Port Colborne being the common point for determining distances from Lake Ontario and St. Lawrence River points to points in Lake Superior (Table II), a through distance would be derived as follows:

Port Colborne to Cornwall.....	294
Port Colborne to Fort William.....	847
Cornwall to Fort William.....	1,141

<sup>a</sup> From sailing course point north of light.  
<sup>b</sup> From foot of Grand River Ave.  
<sup>c</sup> From upper end of canal.  
<sup>\*</sup> To Toronto west entrance.

## EXPLANATION

Explanation generally applicable to all tables is published in Table I.

Points in this table are arranged in geographical sequence proceeding westward along the south shore and returning eastward along the north shore of the lake and down St. Lawrence River.

For determining distances to points located in other lakes, distances from all places listed in this table are given to the initial points Nos. 1 to 3, which also appear in the other tables respectively indicated by numeral designation. The through distance from a given point in this table to a given point in any other table is the sum of the respective distances to each given point from the initial point which is common to the two tables. Thus, Port Colborne being the common point for determining distances from Lake Ontario and St. Lawrence River points to points in Lake Superior (Table II), a through distance would be derived as follows:

Port Colborne to Cornwall..... 294  
Port Colborne to Port William..... 847

Cornwall to Fort William..... 1,141

<sup>a</sup> From sailing course point north of light.

<sup>b</sup> From foot of Grand River Ave.

<sup>c</sup> From upper end of canal.

\* To Toronto west entrance.

## NEW LAKE VESSELS

Owner	Name	Length Keel Over-All	Beam	Depth	Engine	Horse Power S-Shaft I-Indicated	Fuel	Estimated Speed Loaded	Estimated Capacity	Where Built	In Commission
Pittsburgh S. S. Co.	Philip R. Clarke	620' 647'	AMERICAN	BU	LK FREIGHTERS						
" " " "	Arthur M. Anderson	620' 647'	70'	36'	Turbine	7000 S	Oil	16 Plus Mi.	18500	Lorain	1952
" " " "	Cason J. Calloway	620' 647'	70'	36'	"	7000 S	"	" " "	18500	"	1952
Columbia S. S. Co.		620' 647'	70'	36'	"	7000 S	"	" " "	18500	River Rouge	1952
" " " "		620' 647'	70'	36'	"	7000 S	"	" " "	18500	Lorain	1952
Interlake S. S. Co.	J. L. Mauthe	620' 647'	70'	36'	"	7000 S	"	" " "	18500	"	1952
Cleveland Cliffs Iron Co.	E. B. Greene	620' 647'	70'	36'	"	7000 S	"	" " "	18500	Toledo	1952
Ford Motor Co.	Wm. C. Ford	620' 647'	70'	36'	"	7000 S	"	" " "	18500	River Rouge	1953
Hutchinson & Co.	C. L. Hutchinson	614' 639' 6"	67'	35'	"	4000 S	"	14 Mi.	18000	Bay City	1952
Great Lakes S. S. Co.		614' 639' 6"	67'	35'	"	4000 S	"	14 Mi.	18000	"	1952
National Steel Corp.		662' 690'	70'	37'	"	7000 S	Coal	16 Plus "	19500	Lorain	1953
Bethlehem Trans. Co.		610' 626'	AMERICAN	BULK FREIGHTERS	(From Ocean)						
" " " "		610' 626'	70'	37'	Turbine	7000 S	Oil	16 Plus Mi.	18000	Sparrows Point	1952
Interlake S. S. Co.	Elton Hoyt II	610' 626'	70'	37'	"	7000 S	"	" " "	18000	"	1952
Cleveland Cliffs Iron Co.	Cliffs Victory	601' 620' 3"	62'	38'	Turbine	8500 S	Oil	18 Mi.	11500	Portland	1951
Nicholson Universal S. S. Co.	Tom Girdler	585' 600'	71' 6"	35'	"	9000 S	"	18 Plus "	14000	Vancouver	1951
" " " "	Chas. M. White	585' 600'	71' 6"	35'	"	9000 S	"	" " "	14000	"	1952
" " " "	Troy Browning	585' 600'	71' 6"	35'	"	9000 S	"	" " "	14000	"	1952
Hansand S. S. Corp.		696' 710'	71' 6"	38' 6"	"	9000 S	"	17 " "	18500	Chester	1952
Bradley Trans. Co.	John G. Munson	640' 663' 3"	AMERICAN	SELF UNLOADERS							
American S. S. Co.		601' 627'	72'	36'	Turbine	7000 S	Coal	16 Mi.	20000 Net	Manitowoc	1952
			72'	36'	"	7000 S	"	" "	18000 Stone 16500 Coal	"	1953
Amersand S. S. Co.		619' 633'	AMERICAN	SELF UNLOADERS	(From Ocean)						
			71' 6"	RE-CONSTRUCTED							
			38' 6"	Turbine	9000 S	Oil	17 Plus Mi.	16500	Chester	1953	
Canada S. S. Co.	Hochelaga	612' 640'	CANADIAN	BULK FREIGHTERS							
" " " "	Coverdale	612' 640'	67'	35'	Skinner	3600 I	Coal	14 Mi.	18000	Collingwood	1949
" " " "	Sir James Dunn	632' 660'	67'	35'	"	3600 I	Oil	" "	18000	Midland	1950
Colonial S. S. Co.	Scott Misener	630' 654'	68'	35'	Turbine	6000 S	"	15 "	18800	Port Arthur	1952
		654' 678'	68'	36'	"	6000 S	"	15 "	18800	Port Weller	1951
Upper Lakes & St. Lawrence Nav. Co.	James L. Norris	636' 664'	67'	35'	Skinner	5000 I	"	14 "	18800	Midland	1952
Algoma Central S. S. Line		636' 664'	67'	35'	"	5000 I	"	14 "	18800	"	1952
British American Oil Co., Ltd.		550' 574'	59'	31'	Turbine	3300 S	"	14 "	12000	Port Arthur	1953
		620'	68'	35'	Turbine	4500 S	"	14 "	5000	Collingwood	1953



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